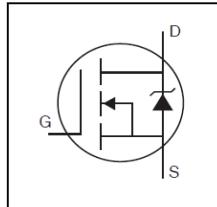


## HEXFET® Power MOSFET

**Features**

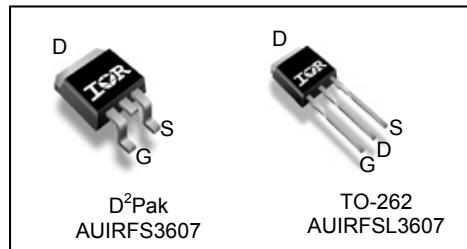
- Advanced Process Technology
- Low On-Resistance
- 175°C Operating Temperature
- Fast Switching
- Repetitive Avalanche Allowed up to Tjmax
- Lead-Free, RoHS Compliant
- Automotive Qualified \*



|                                |               |
|--------------------------------|---------------|
| <b>V<sub>DSS</sub></b>         | <b>75V</b>    |
| <b>R<sub>DS(on)</sub></b> typ. | <b>7.34mΩ</b> |
|                                | <b>9.0mΩ</b>  |
| <b>I<sub>D</sub></b>           | <b>80A</b>    |

**Description**

Specifically designed for Automotive applications, this HEXFET® Power MOSFET utilizes the latest processing techniques to achieve extremely low on-resistance per silicon area. Additional features of this design are a 175°C junction operating temperature, fast switching speed and improved repetitive avalanche rating. These features combine to make this design an extremely efficient and reliable device for use in Automotive applications and a wide variety of other applications



| <b>G</b> | <b>D</b> | <b>S</b> |
|----------|----------|----------|
| Gate     | Drain    | Source   |

| <b>Base part number</b> | <b>Package Type</b> | <b>Standard Pack</b> |                 | <b>Orderable Part Number</b> |
|-------------------------|---------------------|----------------------|-----------------|------------------------------|
|                         |                     | <b>Form</b>          | <b>Quantity</b> |                              |
| AUIRFSL3607             | TO-262              | Tube                 | 50              | AUIRFSL3607                  |
| AUIRFS3607              | D²-Pak              | Tube                 | 50              | AUIRFS3607                   |
|                         |                     | Tape and Reel Left   | 800             | AUIRFS3607TRL                |

**Absolute Maximum Ratings**

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only; and functional operation of the device at these or any other condition beyond those indicated in the specifications is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability. The thermal resistance and power dissipation ratings are measured under board mounted and still air conditions. Ambient temperature (TA) is 25°C, unless otherwise specified.

| <b>Symbol</b>                           | <b>Parameter</b>  | <b>Max.</b>  | <b>Units</b> |
|---|---|--------------|--------------|
| I <sub>D</sub> @ T <sub>C</sub> = 25°C  | Continuous Drain Current, V <sub>GS</sub> @ 10V         | 80           | A            |
| I <sub>D</sub> @ T <sub>C</sub> = 100°C | Continuous Drain Current, V <sub>GS</sub> @ 10V         | 56           |              |
| I <sub>DM</sub>                         | Pulsed Drain Current ①                                  | 310          |              |
| P <sub>D</sub> @T <sub>C</sub> = 25°C   | Maximum Power Dissipation                               | 140          | W            |
|   | Linear Derating Factor                                  | 0.96         | W/°C         |
| V <sub>GS</sub>                         | Gate-to-Source Voltage                                  | ± 20         | V            |
| dv/dt                                   | Peak Diode Recovery ③                                   | 27           | V/ns         |
| E <sub>AS</sub>                         | Single Pulse Avalanche Energy (Thermally Limited) ②     | 120          | mJ           |
| I <sub>AR</sub>                         | Avalanche Current ①                                     | 46           | A            |
| E <sub>AR</sub>                         | Repetitive Avalanche Energy ①                           | 14           | mJ           |
| T <sub>J</sub>                          | Operating Junction and                                  | -55 to + 175 | °C           |
| T <sub>STG</sub>                        | Storage Temperature Range                               |              |              |
|   | Soldering Temperature, for 10 seconds (1.6mm from case) | 300          |              |

**Thermal Resistance**

| <b>Symbol</b>    | <b>Parameter</b>                          | <b>Typ.</b> | <b>Max.</b> | <b>Units</b> |
|------------------|---|-------------|-------------|--------------|
| R <sub>θJC</sub> | Junction-to-Case ⑧                        | —           | 1.045       | °C/W         |
| R <sub>θJA</sub> | Junction-to-Ambient (PCB Mount), D² Pak ⑦ | —           | 40          |              |

HEXFET® is a registered trademark of Infineon.

\*Qualification standards can be found at [www.infineon.com](http://www.infineon.com)

**Static @  $T_J = 25^\circ\text{C}$  (unless otherwise specified)**

|   | Parameter                            | Min. | Typ.  | Max. | Units               | Conditions   |
|---|--------------------------------------|------|-------|------|---------------------|--|
| $V_{(\text{BR})\text{DSS}}$                   | Drain-to-Source Breakdown Voltage    | 75   | —     | —    | V                   | $V_{GS} = 0V, I_D = 250\mu\text{A}$                  |
| $\Delta V_{(\text{BR})\text{DSS}}/\Delta T_J$ | Breakdown Voltage Temp. Coefficient  | —    | 0.096 | —    | V/ $^\circ\text{C}$ | Reference to $25^\circ\text{C}, I_D = 5\text{mA}$ ②  |
| $R_{DS(\text{on})}$                           | Static Drain-to-Source On-Resistance | —    | 7.34  | 9.0  | $\text{m}\Omega$    | $V_{GS} = 10V, I_D = 46\text{A}$ ④                   |
| $V_{GS(\text{th})}$                           | Gate Threshold Voltage               | 2.0  | —     | 4.0  | V                   | $V_{DS} = V_{GS}, I_D = 100\mu\text{A}$              |
| $g_{fs}$                                      | Forward Trans conductance            | 115  | —     | —    | S                   | $V_{DS} = 50V, I_D = 46\text{A}$                     |
| $I_{DSS}$                                     | Drain-to-Source Leakage Current      | —    | —     | 20   | $\mu\text{A}$       | $V_{DS} = 75V, V_{GS} = 0V$                          |
|   |                                      | —    | —     | 250  |                     | $V_{DS} = 60V, V_{GS} = 0V, T_J = 125^\circ\text{C}$ |
| $I_{GSS}$                                     | Gate-to-Source Forward Leakage       | —    | —     | 100  | nA                  | $V_{GS} = 20V$                                       |
|   | Gate-to-Source Reverse Leakage       | —    | —     | -100 |                     | $V_{GS} = -20V$                                      |

**Dynamic Electrical Characteristics @  $T_J = 25^\circ\text{C}$  (unless otherwise specified)**

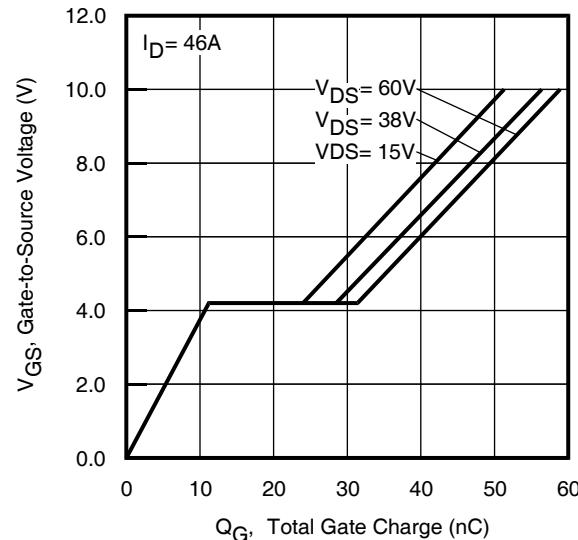
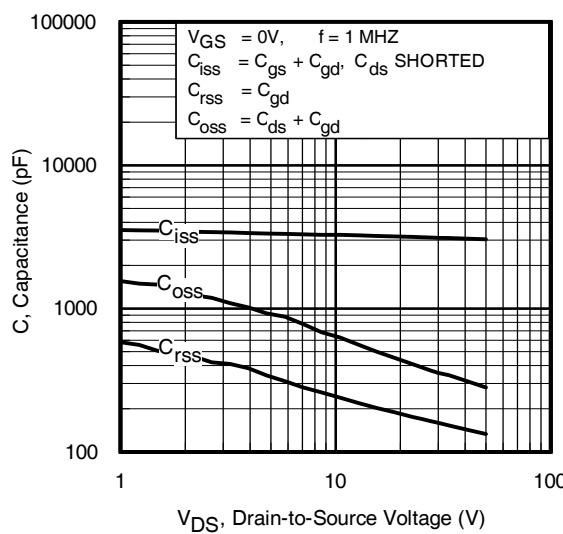
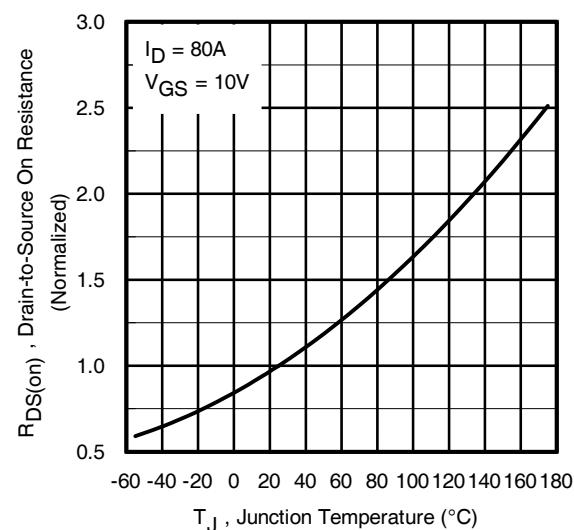
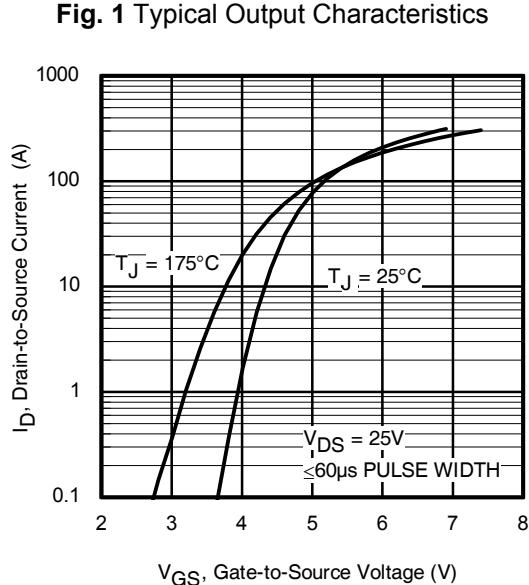
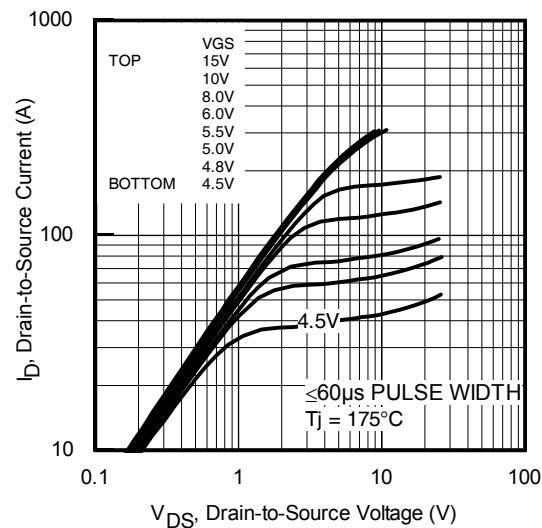
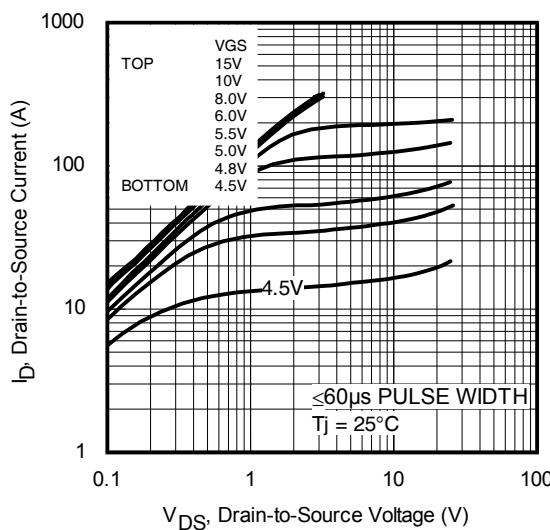
|                             |   |   |      |    |          |   |
|-----------------------------|---|---|------|----|----------|---|
| $Q_g$                       | Total Gate Charge                             | — | 56   | 84 | nC       | $I_D = 46\text{A}$<br>$V_{DS} = 38V$<br>$V_{GS} = 10V$ ④  |
| $Q_{gs}$                    | Gate-to-Source Charge                         | — | 13   | —  |          |   |
| $Q_{gd}$                    | Gate-to-Drain Charge                          | — | 16   | —  |          |   |
| $Q_{\text{sync}}$           | Total Gate Charge Sync. ( $Q_g - Q_{gd}$ )    | — | 40   | —  |          |   |
| $R_G$                       | Internal Gate Resistance                      | — | 0.55 | —  | $\Omega$ |   |
| $t_{d(on)}$                 | Turn-On Delay Time                            | — | 16   | —  | ns       | $V_{DD} = 49V$<br>$I_D = 46\text{A}$<br>$R_G = 6.8\Omega$<br>$V_{GS} = 10V$ ④   |
| $t_r$                       | Rise Time                                     | — | 110  | —  |          |   |
| $t_{d(off)}$                | Turn-Off Delay Time                           | — | 43   | —  |          |   |
| $t_f$                       | Fall Time                                     | — | 96   | —  |          |   |
| $C_{iss}$                   | Input Capacitance                             | — | 3070 | —  | pF       | $V_{GS} = 0V$<br>$V_{DS} = 50V$<br>$f = 1.0\text{MHz}$ , See Fig. 5<br>$V_{GS} = 0V, V_{DS} = 0V$ to $60V$ ⑥<br>$V_{GS} = 0V, V_{DS} = 0V$ to $60V$ ⑤ |
| $C_{oss}$                   | Output Capacitance                            | — | 280  | —  |          |   |
| $C_{rss}$                   | Reverse Transfer Capacitance                  | — | 130  | —  |          |   |
| $C_{oss \text{ eff. (ER)}}$ | Effective Output Capacitance (Energy Related) | — | 380  | —  |          |   |
| $C_{oss \text{ eff. (TR)}}$ | Effective Output Capacitance (Time Related)   | — | 610  | —  |          |   |

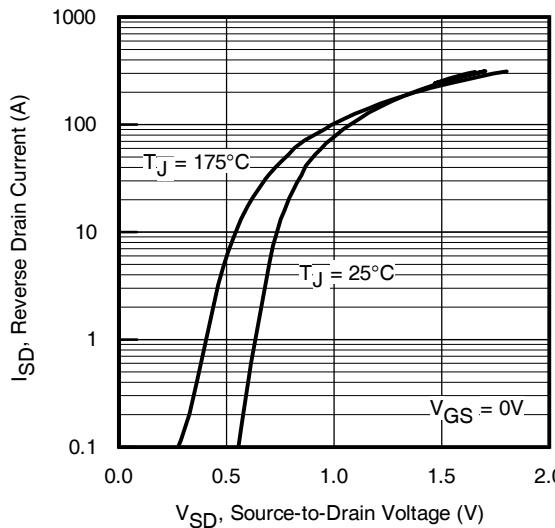
**Diode Characteristics**

|           | Parameter                              | Min.  | Typ. | Max. | Units | Conditions  |
|-----------|--|---|------|------|-------|---|
| $I_s$     | Continuous Source Current (Body Diode) | —   | —    | 80   | A     | MOSFET symbol showing the integral reverse p-n junction diode.                            |
|           | Pulsed Source Current (Body Diode) ①   | —   | —    | 310  |       |   |
| $V_{SD}$  | Diode Forward Voltage                  | —   | —    | 1.3  | V     | $T_J = 25^\circ\text{C}, I_s = 46\text{A}, V_{GS} = 0V$ ④                                 |
| $t_{rr}$  | Reverse Recovery Time                  | —   | 33   | 50   | ns    | $T_J = 25^\circ\text{C}$ $V_{DD} = 64V$<br>$T_J = 125^\circ\text{C}$ $I_F = 46\text{A}$ , |
|           |  | —   | 39   | 59   |       |   |
| $Q_{rr}$  | Reverse Recovery Charge                | —   | 32   | 48   | nC    | $T_J = 25^\circ\text{C}$ $di/dt = 100\text{A}/\mu\text{s}$ ④<br>$T_J = 125^\circ\text{C}$ |
|           |  | —   | 47   | 71   |       |   |
| $I_{RRM}$ | Reverse Recovery Current               | —   | 1.9  | —    | A     | $T_J = 25^\circ\text{C}$  |
| $t_{on}$  | Forward Turn-On Time                   | Intrinsic turn-on time is negligible (turn-on is dominated by $L_s + L_D$ ) |      |      |       |   |

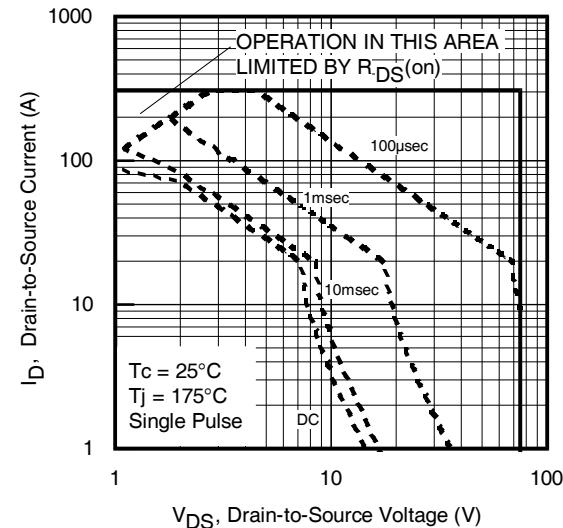
**Notes:**

- ① Repetitive rating; pulse width limited by max. junction temperature.
- ② Limited by  $T_{J\text{max}}$ , starting  $T_J = 25^\circ\text{C}$ ,  $L = 0.12\text{mH}$ ,  $R_G = 25\Omega$ ,  $I_{AS} = 46\text{A}$ ,  $V_{GS} = 10V$ . Part not recommended for use above this value.
- ③  $I_{SD} \leq 46\text{A}$ ,  $di/dt \leq 1920\text{A}/\mu\text{s}$ ,  $V_{DD} \leq V_{(\text{BR})\text{DSS}}$ ,  $T_J \leq 175^\circ\text{C}$ .
- ④ Pulse width  $\leq 400\mu\text{s}$ ; duty cycle  $\leq 2\%$ .
- ⑤  $C_{oss \text{ eff. (TR)}}$  is a fixed capacitance that gives the same charging time as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 80%  $V_{DSS}$ .
- ⑥  $C_{oss \text{ eff. (ER)}}$  is a fixed capacitance that gives the same energy as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 80%  $V_{DSS}$ .
- ⑦ When mounted on 1" square PCB (FR-4 or G-10 Material). For recommended footprint and soldering techniques refer to application note #AN-994
- ⑧  $R_0$  is measured at  $T_J$  approximately  $90^\circ\text{C}$ .

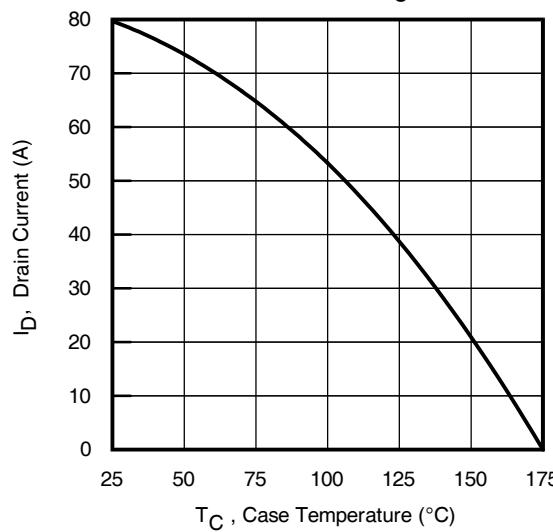




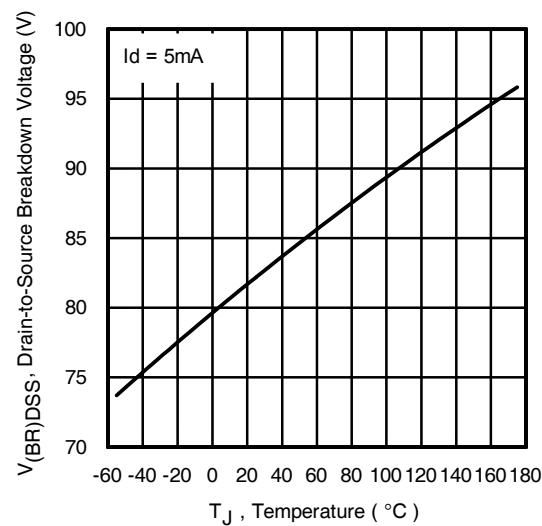
**Fig. 7** Typical Source-to-Drain Diode Forward Voltage



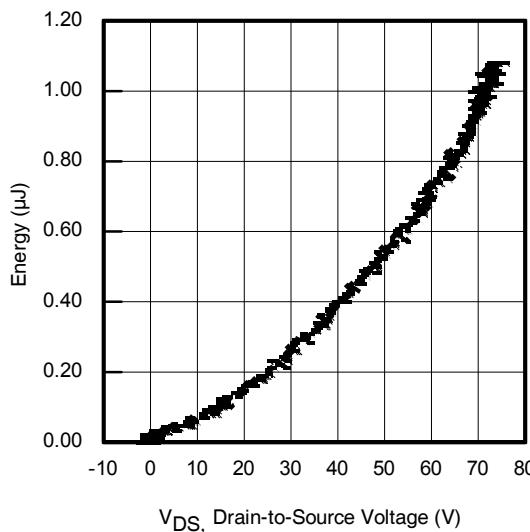
**Fig 8.** Maximum Safe Operating Area



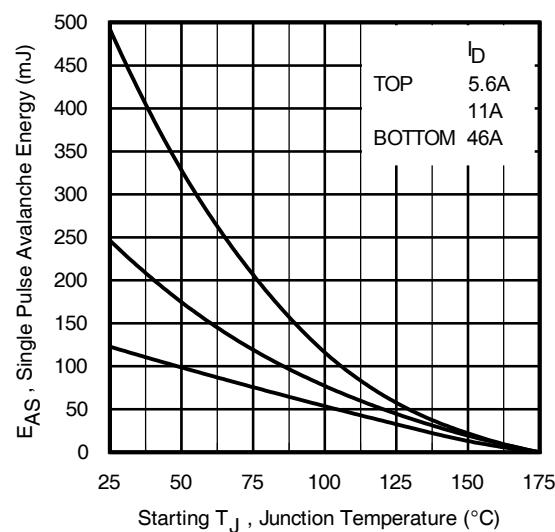
**Fig 9.** Maximum Drain Current vs. Case Temperature



**Fig 10.** Drain-to-Source Breakdown Voltage



**Fig 11.** Typical Coss Stored Energy



**Fig 12.** Maximum Avalanche Energy vs. Drain Current

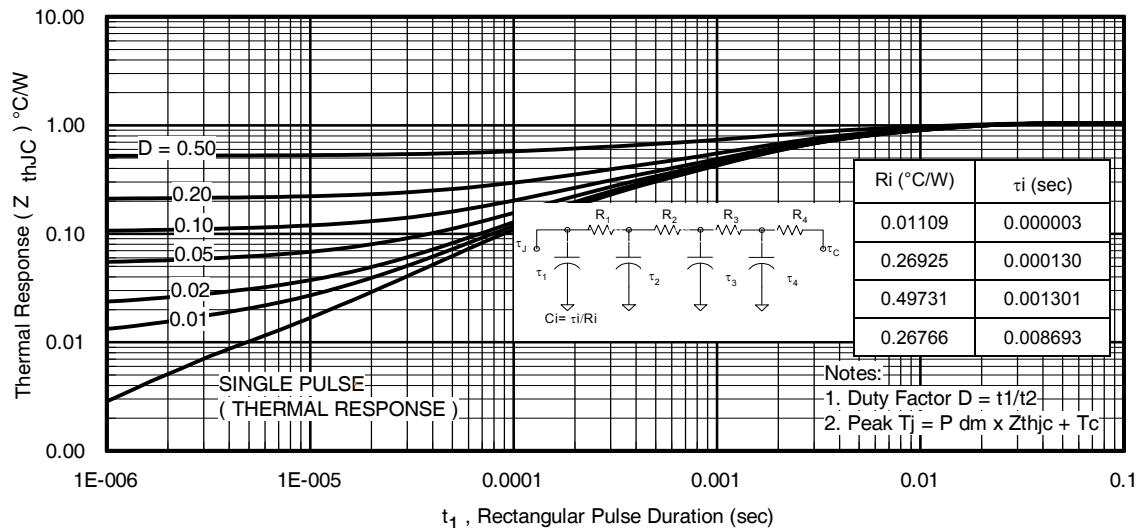


Fig 13. Maximum Effective Transient Thermal Impedance, Junction-to-Case

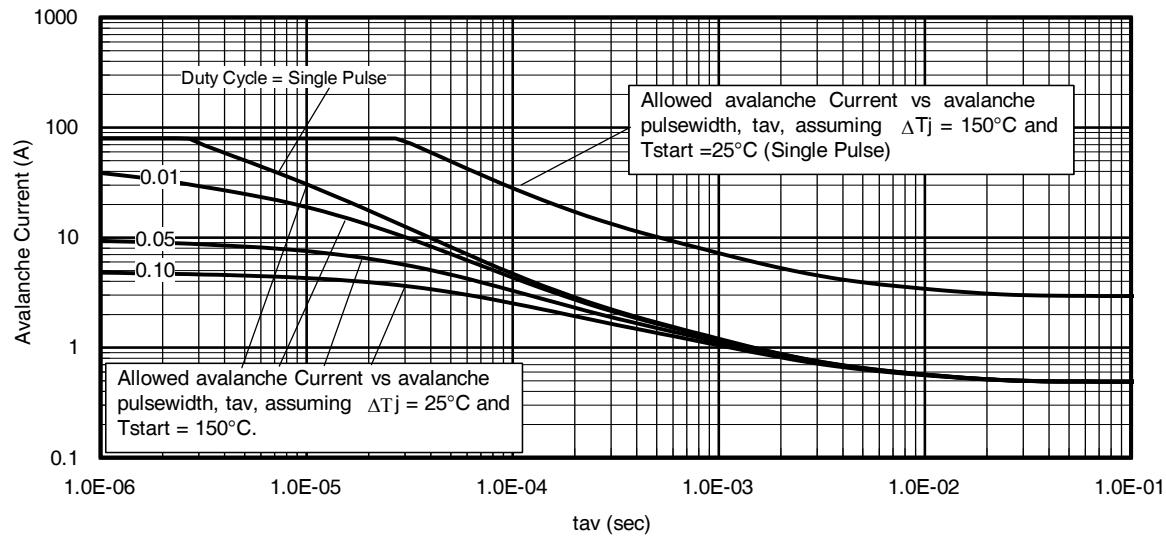


Fig 14. Avalanche Current vs. Pulse width

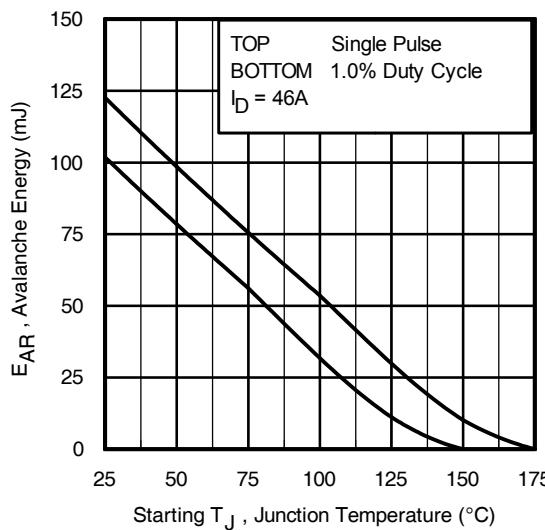


Fig 15. Maximum Avalanche Energy vs. Temperature

#### Notes on Repetitive Avalanche Curves , Figures 14, 15: (For further info, see AN-1005 at [www.infineon.com](http://www.infineon.com))

1. Avalanche failures assumption:  
Purely a thermal phenomenon and failure occurs at a temperature far in excess of  $T_{jmax}$ . This is validated for every part type.
  2. Safe operation in Avalanche is allowed as long as  $T_{jmax}$  is not exceeded.
  3. Equation below based on circuit and waveforms shown in Figures 18a, 18b.
  4.  $P_{D(ave)}$  = Average power dissipation per single avalanche pulse.
  5. BV = Rated breakdown voltage (1.3 factor accounts for voltage increase during avalanche).
  6.  $I_{av}$  = Allowable avalanche current.
  7.  $\Delta T$  = Allowable rise in junction temperature, not to exceed  $T_{jmax}$  (assumed as  $25^{\circ}\text{C}$  in Figure 13, 14).
- $tav$  = Average time in avalanche.  
 $D$  = Duty cycle in avalanche =  $tav \cdot f$   
 $Z_{thJC}(D, tav)$  = Transient thermal resistance, see Figures 13)

$$P_{D(ave)} = 1/2 (1.3 \cdot BV \cdot I_{av}) = \Delta T / Z_{thJC}$$

$$I_{av} = 2\Delta T / [1.3 \cdot BV \cdot Z_{th}]$$

$$E_{AS(AR)} = P_{D(ave)} \cdot t_{av}$$

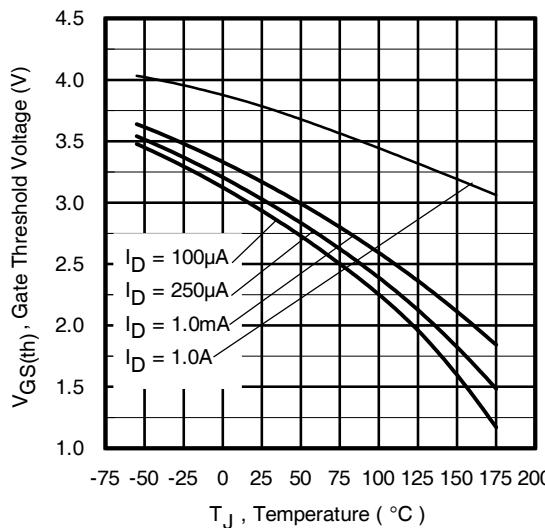


Fig. 16. Threshold Voltage vs. Temperature

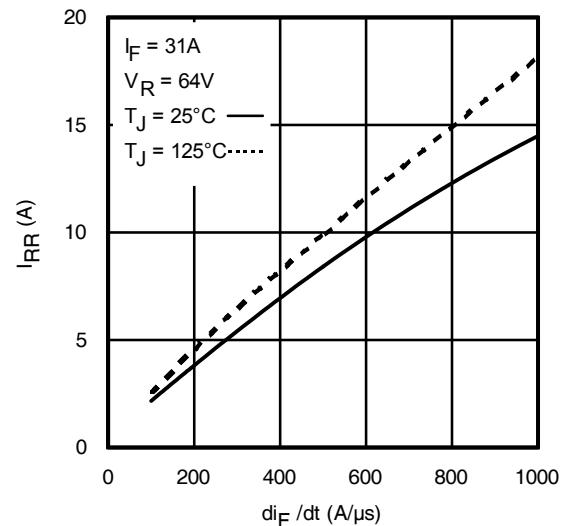


Fig. 17 - Typical Recovery Current vs.  $di_F/dt$

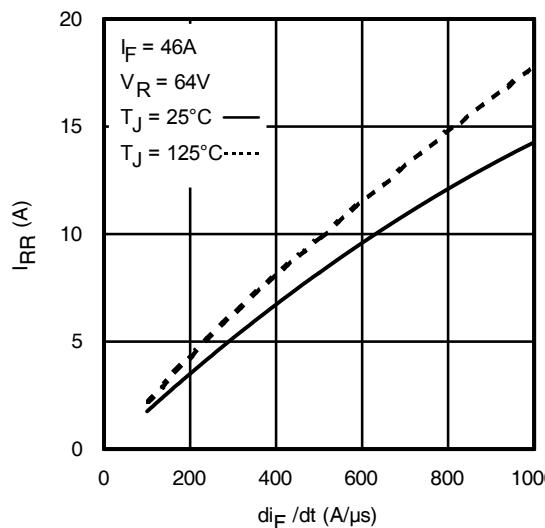


Fig. 18 - Typical Recovery Current vs.  $di_F/dt$

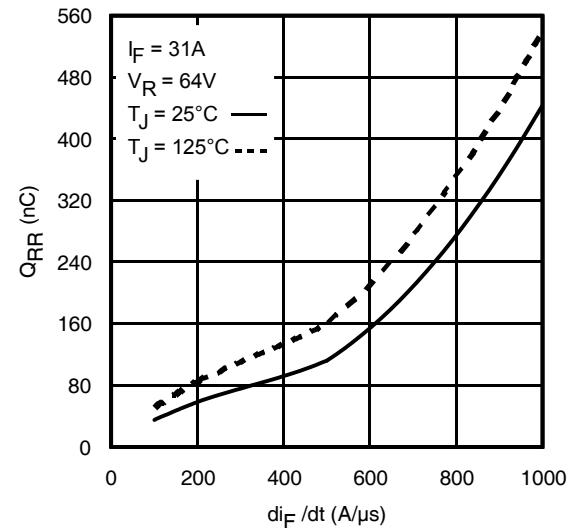


Fig. 19 - Typical Stored Charge vs.  $di_F/dt$

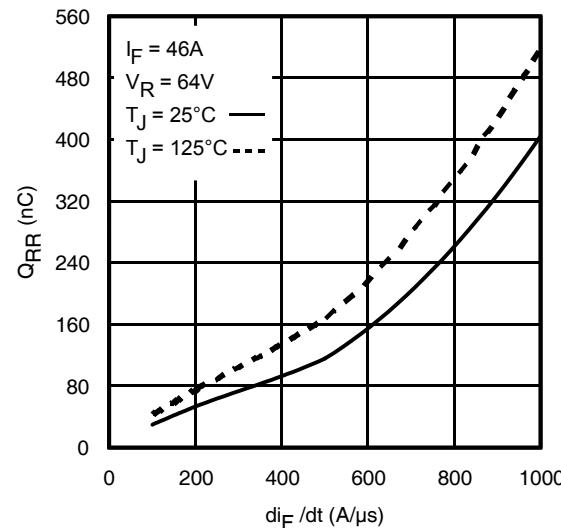
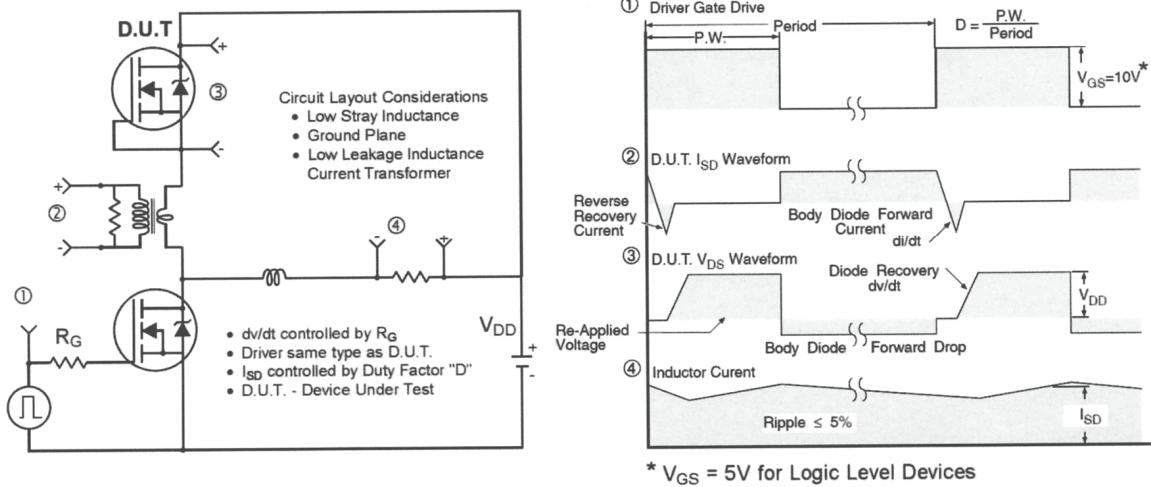
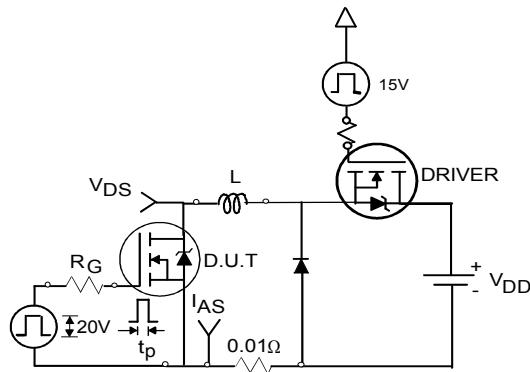


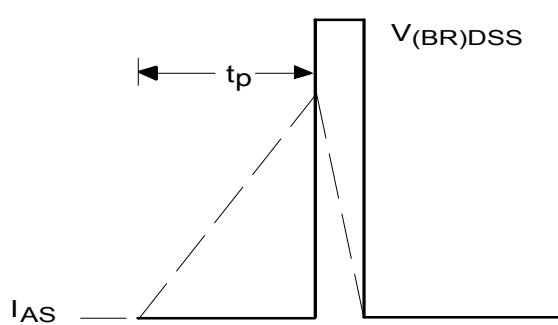
Fig. 20 - Typical Stored Charge vs.  $di_F/dt$



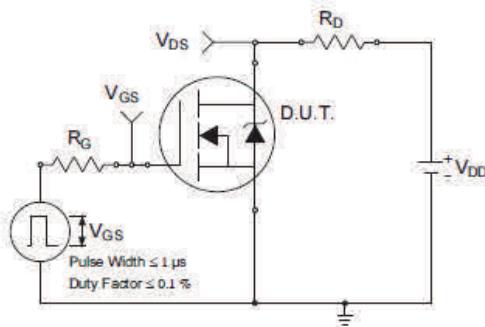
**Fig 21.** Peak Diode Recovery  $dv/dt$  Test Circuit for N-Channel HEXFET® Power MOSFETs



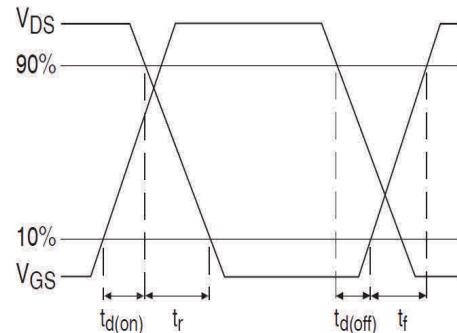
**Fig 22a.** Unclamped Inductive Test Circuit



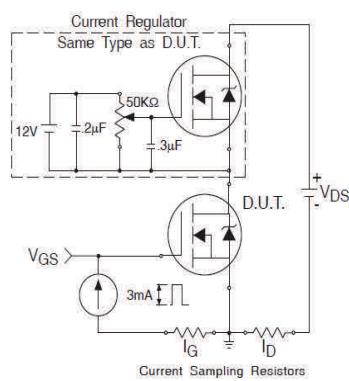
**Fig 22b.** Unclamped Inductive Waveforms



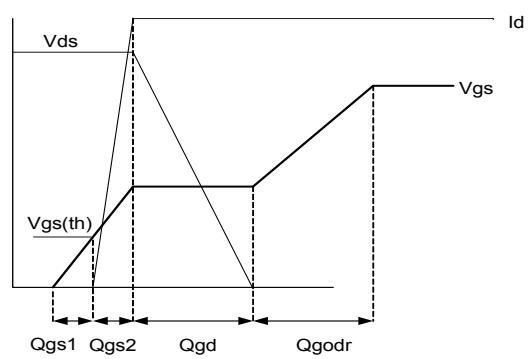
**Fig 23a.** Switching Time Test Circuit



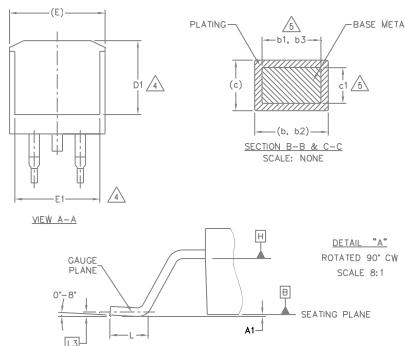
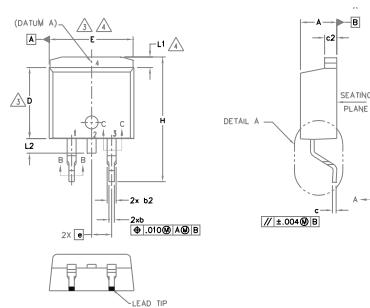
**Fig 23b.** Switching Time Waveforms



**Fig 24a.** Gate Charge Test Circuit



**Fig 24b.** Gate Charge Waveform

**D<sup>2</sup>Pak (TO-263AB) Package Outline (Dimensions are shown in millimeters (inches))**

| SYMBOL | DIMENSIONS  |       |        |      | NOTES |  |
|--------|-------------|-------|--------|------|-------|--|
|        | MILLIMETERS |       | INCHES |      |       |  |
|        | MIN.        | MAX.  | MIN.   | MAX. |       |  |
| A      | 4.06        | 4.83  | .160   | .190 |       |  |
| A1     | 0.00        | 0.254 | .000   | .010 |       |  |
| b      | 0.51        | 0.99  | .020   | .039 |       |  |
| b1     | 0.51        | 0.89  | .020   | .035 | 5     |  |
| b2     | 1.14        | 1.78  | .045   | .070 |       |  |
| b3     | 1.14        | 1.73  | .045   | .068 | 5     |  |
| c      | 0.38        | 0.74  | .015   | .029 |       |  |
| c1     | 0.38        | 0.58  | .015   | .023 | 5     |  |
| c2     | 1.14        | 1.65  | .045   | .065 |       |  |
| D      | 8.38        | 9.65  | .330   | .380 | 3     |  |
| D1     | 6.86        | —     | .270   | —    | 4     |  |
| E      | 9.65        | 10.67 | .380   | .420 | 3,4   |  |
| E1     | 6.22        | —     | .245   | —    | 4     |  |
| e      | 2.54        | BSC   | .100   | BSC  |       |  |
| H      | 14.61       | 15.88 | .575   | .625 |       |  |
| L      | 1.78        | 2.79  | .070   | .110 |       |  |
| L1     | —           | 1.68  | —      | .066 | 4     |  |
| L2     | —           | 1.78  | —      | .070 |       |  |
| L3     | 0.25        | BSC   | .010   | BSC  |       |  |

## LEAD ASSIGNMENTS

## DIODES

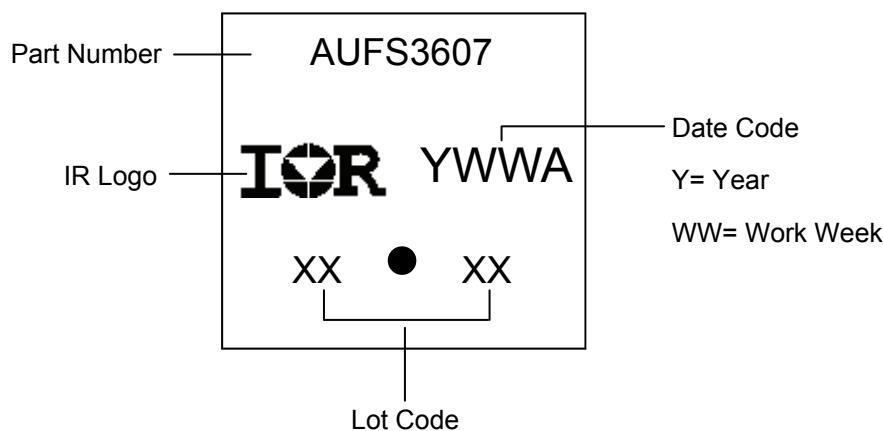
- 1.- ANODE (TWO DIE) / OPEN (ONE DIE)
- 2, 4.- CATHODE
- 3.- ANODE

## HEXFET

- 1.- GATE
- 2, 4.- DRAIN
- 3.- SOURCE

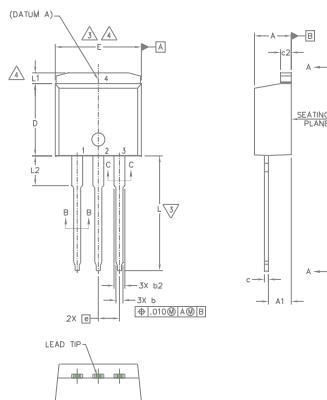
## IGRTs, CoPACK

- 1.- GATE
- 2, 4.- COLLECTOR
- 3.- Emitter

**D<sup>2</sup>Pak (TO-263AB) Part Marking Information**

Note: For the most current drawing please refer to IR website at <http://www.irf.com/package/>

## TO-262 Package Outline (Dimensions are shown in millimeters (inches)



### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
2. DIMENSIONS ARE SHOWN IN MILLIMETERS [INCHES].
3. DIMENSION D & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.127 [.005"] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY.
4. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSION E, L1, D1 & E1.
5. DIMENSION b1 AND c1 APPLY TO BASE METAL ONLY.
6. CONTROLLING DIMENSION: INCH.
7. OUTLINE CONFORM TO JEDEC TO-262 EXCEPT A1(max.), b(min.) AND D1(min.) WHERE DIMENSIONS DERIVED THE ACTUAL PACKAGE OUTLINE.

### LEAD ASSIGNMENTS

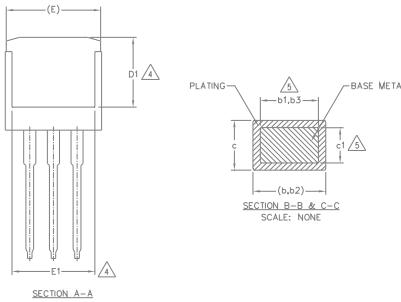
#### IGBTs, CoPACK

1. GATE
2. COLLECTOR
3. Emitter
4. COLLECTOR

#### HEXFET

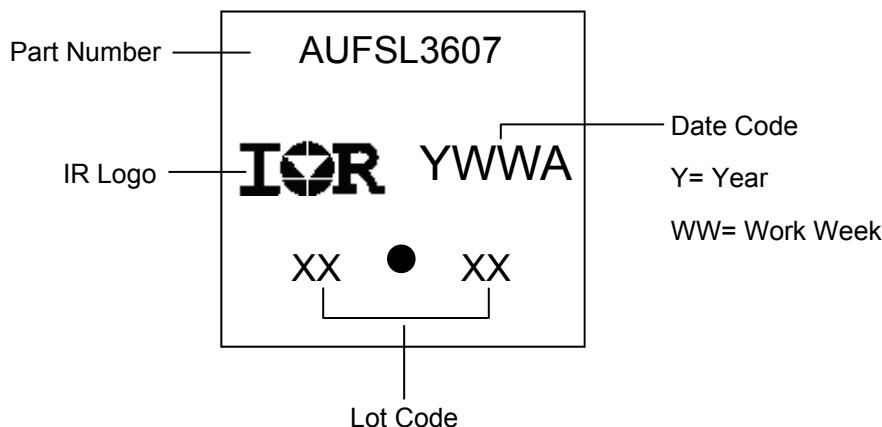
#### DIODES

- |           |                                      |
|-----------|--------------------------------------|
| 1. GATE   | 1 - ANODE (TWO DIE) / OPEN (ONE DIE) |
| 2. DRAIN  | 2, 4. - CATHODE                      |
| 3. SOURCE | 3. - ANODE                           |
| 4. DRAIN  |                                      |

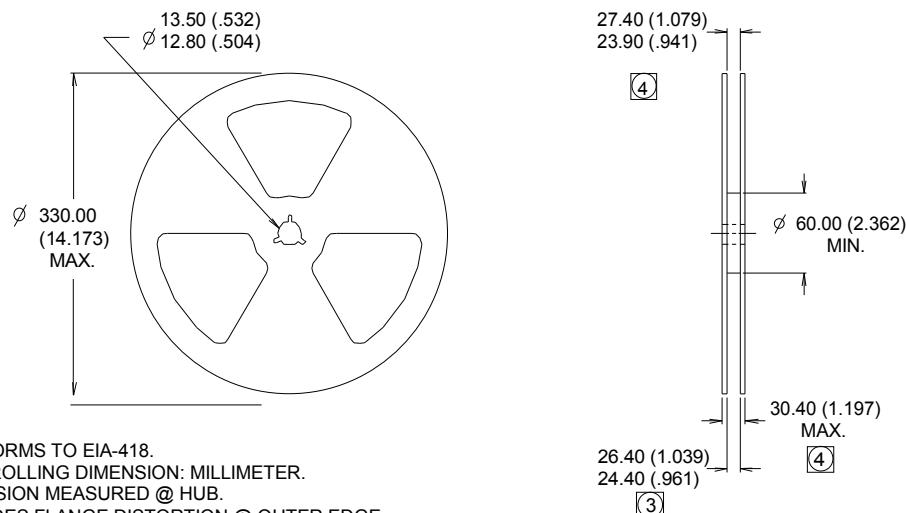
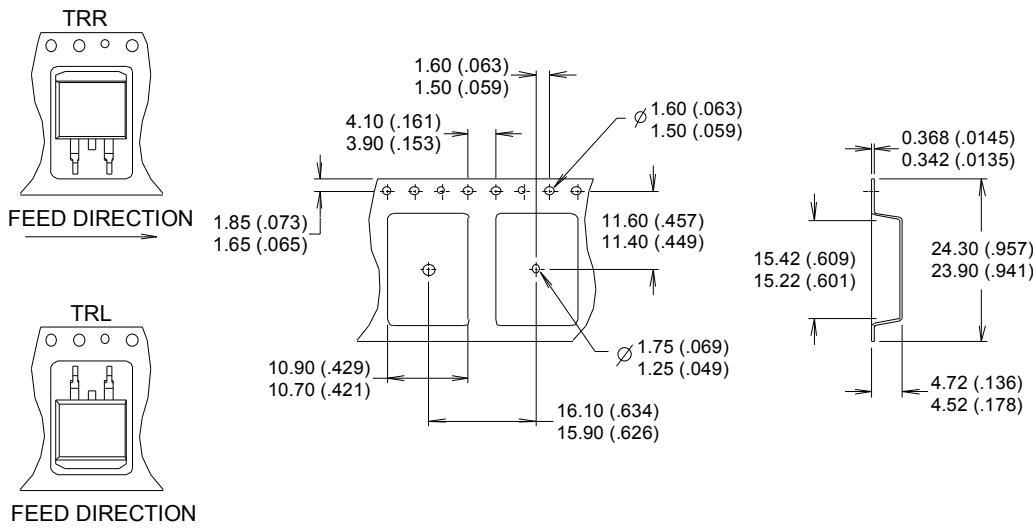


| S<br>Y<br>M<br>B<br>O<br>L | DIMENSIONS  |       |        |      | N<br>O<br>T<br>E<br>S |  |
|----------------------------|-------------|-------|--------|------|-----------------------|--|
|                            | MILLIMETERS |       | INCHES |      |                       |  |
|                            | MIN.        | MAX.  | MIN.   | MAX. |                       |  |
| A                          | 4.06        | 4.83  | .160   | .190 |                       |  |
| A1                         | 2.03        | 3.02  | .080   | .119 |                       |  |
| b                          | 0.51        | 0.99  | .020   | .039 |                       |  |
| b1                         | 0.51        | 0.89  | .020   | .035 | 5                     |  |
| b2                         | 1.14        | 1.78  | .045   | .070 |                       |  |
| b3                         | 1.14        | 1.73  | .045   | .068 | 5                     |  |
| c                          | 0.38        | 0.74  | .015   | .029 |                       |  |
| c1                         | 0.38        | 0.58  | .015   | .023 | 5                     |  |
| c2                         | 1.14        | 1.65  | .045   | .065 |                       |  |
| D                          | 8.38        | 9.65  | .330   | .380 | 3                     |  |
| D1                         | 6.86        | —     | .270   | —    | 4                     |  |
| E                          | 9.65        | 10.67 | .380   | .420 | 3,4                   |  |
| E1                         | 6.22        | —     | .245   | —    | 4                     |  |
| e                          | 2.54        | BSC   | .100   | BSC  |                       |  |
| L                          | 13.46       | 14.10 | .530   | .555 |                       |  |
| L1                         | —           | 1.65  | —      | .065 | 4                     |  |
| L2                         | 3.56        | 3.71  | .140   | .146 |                       |  |

## TO-262 Part Marking Information



Note: For the most current drawing please refer to IR website at <http://www.irf.com/package/>

**D<sup>2</sup>Pak (TO-263AB) Tape & Reel Information** (Dimensions are shown in millimeters (inches))

Note: For the most current drawing please refer to IR website at <http://www.irf.com/package/>

**Qualification Information**

|                                   |                      |   |      |  |  |  |
|-----------------------------------|----------------------|---|------|--|--|--|
| <b>Qualification Level</b>        |                      | Automotive<br>(per AEC-Q101)  |      |  |  |  |
|                                   |                      | Comments: This part number(s) passed Automotive qualification. Infineon's Industrial and Consumer qualification level is granted by extension of the higher Automotive level. |      |  |  |  |
| <b>Moisture Sensitivity Level</b> |                      | D <sup>2</sup> -Pak   | MSL1 |  |  |  |
|                                   |                      | TO-262  |      |  |  |  |
| <b>ESD</b>                        | Machine Model        | Class M4 (+/- 600V) <sup>†</sup><br>AEC-Q101-002  |      |  |  |  |
|                                   | Human Body Model     | Class H1C (+/- 2000V) <sup>†</sup><br>AEC-Q101-001  |      |  |  |  |
|                                   | Charged Device Model | Class C5 (+/- 2000V) <sup>†</sup><br>AEC-Q101-005   |      |  |  |  |
| <b>RoHS Compliant</b>             |                      | Yes   |      |  |  |  |

<sup>†</sup> Highest passing voltage.

**Revision History**

| Date       | Comments  |
|------------|---|
| 10/27/2015 | <ul style="list-style-type: none"> <li>• Updated datasheet with corporate template</li> <li>• Corrected ordering table on page 1.</li> </ul>          |
| 02/12/2016 | <ul style="list-style-type: none"> <li>• Corrected Fig.6 label from V<sub>DS</sub>=24V &amp; 15V to V<sub>DS</sub>= 60V,38V,15V-on page 3.</li> </ul> |

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ООО "ЛайфЭлектроникс"

"LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибуторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибуторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помочь разработчикам, и инженерам.

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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