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# ISL9R18120G2, ISL9R18120P2, ISL9R18120S3S 18 A, 1200 V, STEALTH™ Diode

## Features

- Stealth Recovery  $t_{rr} = 300$  ns (@  $I_F = 18$  A)
- Max Forward Voltage,  $V_F = 3.3$  V (@  $T_C = 25^\circ\text{C}$ )
- 1200 V Reverse Voltage and High Reliability
- Avalanche Energy Rated
- RoHS Compliant

## Applications

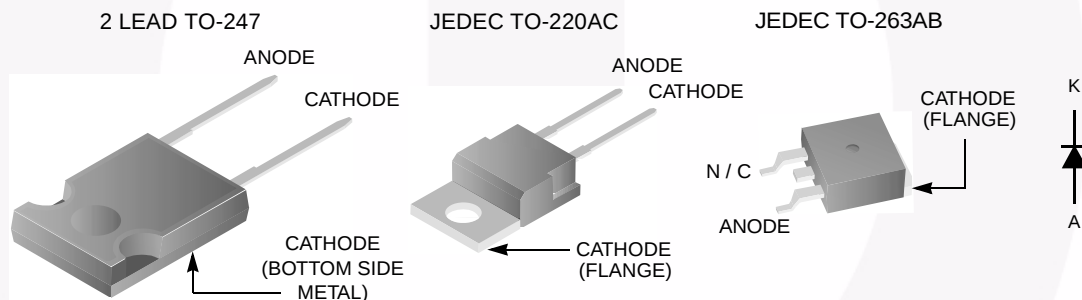
- Hard Switched PFC Boost Diode
- UPS Free Wheeling Diode
- Motor Drive FWD
- SMPS FWD
- Snubber Diode

## Description

The ISL9R18120G2, ISL9R18120P2, ISL9R18120S3S is a STEALTH™ diode optimized for low loss performance in high frequency hard switched applications. The STEALTH™ family exhibits low reverse recovery current ( $I_{RR}$ ) and exceptionally soft recovery under typical operating conditions. This device is intended for use as a free wheeling or boost diode in power supplies and other power switching applications. The low  $I_{RR}$  and short  $t_a$  phase reduce loss in switching transistors. The soft recovery minimizes ringing, expanding the range of conditions under which the diode may be operated without the use of additional snubber circuitry. Consider using the STEALTH™ diode with an SMPS IGBT to provide the most efficient and highest power density design at lower cost.

## Package

## Symbol



## Device Maximum Ratings $T_C = 25^\circ\text{C}$ unless otherwise noted

| Symbol         | Parameter                                                                                        | Rating     | Unit             |
|----------------|--------------------------------------------------------------------------------------------------|------------|------------------|
| $V_{RRM}$      | Repetitive Peak Reverse Voltage                                                                  | 1200       | V                |
| $V_{RWM}$      | Working Peak Reverse Voltage                                                                     | 1200       | V                |
| $V_R$          | DC Blocking Voltage                                                                              | 1200       | V                |
| $I_{F(AV)}$    | Average Rectified Forward Current ( $T_C = 92^\circ\text{C}$ )                                   | 18         | A                |
| $I_{FRM}$      | Repetitive Peak Surge Current (20kHz Square Wave)                                                | 36         | A                |
| $I_{FSM}$      | Nonrepetitive Peak Surge Current (Halfwave 1 Phase 60Hz)                                         | 200        | A                |
| $P_D$          | Power Dissipation                                                                                | 125        | W                |
| $E_{AVL}$      | Avalanche Energy (1A, 40mH)                                                                      | 20         | mJ               |
| $T_J, T_{STG}$ | Operating and Storage Temperature Range                                                          | -55 to 175 | $^\circ\text{C}$ |
| $T_L$          | Maximum Temperature for Soldering                                                                | 300        | $^\circ\text{C}$ |
| $T_{PKG}$      | Leads at 0.063in (1.6mm) from Case for 10s<br>Package Body for 10s, See Application Note AN-7528 | 260        | $^\circ\text{C}$ |

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

**Package Marking and Ordering Information**

| Part Number   | Top Mark | Package  | Packing Method | Tape Width | Quantity |
|---------------|----------|----------|----------------|------------|----------|
| ISL9R18120G2  | R18120G2 | TO-247   | Tube           | N/A        | 30       |
| ISL9R18120P2  | R18120P2 | TO-220AC | Tube           | N/A        | 50       |
| ISL9R18120S3S | R18120S3 | TO-263AB | Reel           | 24mm       | 800      |

**Electrical Characteristics**  $T_C = 25^\circ\text{C}$  unless otherwise noted

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|--------|-----------|-----------------|-----|-----|-----|------|
|--------|-----------|-----------------|-----|-----|-----|------|

**Off State Characteristics**

|       |                               |                       |                           |   |   |     |               |
|-------|-------------------------------|-----------------------|---------------------------|---|---|-----|---------------|
| $I_R$ | Instantaneous Reverse Current | $V_R = 1200\text{ V}$ | $T_C = 25^\circ\text{C}$  | - | - | 100 | $\mu\text{A}$ |
|       |                               |                       | $T_C = 125^\circ\text{C}$ | - | - | 1.0 | $\text{mA}$   |

**On State Characteristics**

|       |                               |                     |                           |   |     |     |            |
|-------|-------------------------------|---------------------|---------------------------|---|-----|-----|------------|
| $V_F$ | Instantaneous Forward Voltage | $I_F = 18\text{ A}$ | $T_C = 25^\circ\text{C}$  | - | 2.7 | 3.3 | $\text{V}$ |
|       |                               |                     | $T_C = 125^\circ\text{C}$ | - | 2.5 | 3.1 | $\text{V}$ |

**Dynamic Characteristics**

|       |                      |                                       |   |    |   |             |
|-------|----------------------|---------------------------------------|---|----|---|-------------|
| $C_J$ | Junction Capacitance | $V_R = 10\text{ V}, I_F = 0\text{ A}$ | - | 69 | - | $\text{pF}$ |
|-------|----------------------|---------------------------------------|---|----|---|-------------|

**Switching Characteristics**

|           |                               |                                                                            |   |     |    |                        |
|-----------|-------------------------------|----------------------------------------------------------------------------|---|-----|----|------------------------|
| $t_{rr}$  | Reverse Recovery Time         | $I_F = 1\text{ A}, di_F/dt = 100\text{ A}/\mu\text{s}, V_R = 30\text{ V}$  | - | 38  | 45 | $\text{ns}$            |
|           |                               | $I_F = 18\text{ A}, di_F/dt = 100\text{ A}/\mu\text{s}, V_R = 30\text{ V}$ | - | 60  | 70 | $\text{ns}$            |
| $t_{rr}$  | Reverse Recovery Time         | $I_F = 18\text{ A},$                                                       | - | 300 | -  | $\text{ns}$            |
| $I_{rr}$  | Reverse Recovery Current      | $di_F/dt = 200\text{ A}/\mu\text{s},$                                      | - | 6.5 | -  | $\text{A}$             |
| $Q_{rr}$  | Reverse Recovered Charge      | $V_R = 780\text{ V}, T_C = 25^\circ\text{C}$                               | - | 950 | -  | $\text{nC}$            |
| $t_{rr}$  | Reverse Recovery Time         | $I_F = 18\text{ A},$                                                       | - | 400 | -  | $\text{ns}$            |
| $S$       | Softness Factor ( $t_b/t_a$ ) | $di_F/dt = 200\text{ A}/\mu\text{s},$                                      | - | 7.0 | -  | -                      |
| $I_{rr}$  | Reverse Recovery Current      | $V_R = 780\text{ V},$                                                      | - | 8.0 | -  | $\text{A}$             |
| $Q_{rr}$  | Reverse Recovered Charge      | $T_C = 125^\circ\text{C}$                                                  | - | 2.0 | -  | $\mu\text{C}$          |
| $t_{rr}$  | Reverse Recovery Time         | $I_F = 18\text{ A},$                                                       | - | 235 | -  | $\text{ns}$            |
| $S$       | Softness Factor ( $t_b/t_a$ ) | $di_F/dt = 1000\text{ A}/\mu\text{s},$                                     | - | 5.2 | -  | -                      |
| $I_{rr}$  | Reverse Recovery Current      | $V_R = 780\text{ V},$                                                      | - | 22  | -  | $\text{A}$             |
| $Q_{rr}$  | Reverse Recovered Charge      | $T_C = 125^\circ\text{C}$                                                  | - | 2.1 | -  | $\mu\text{C}$          |
| $di_M/dt$ | Maximum $di/dt$ during $t_b$  |                                                                            | - | 370 | -  | $\text{A}/\mu\text{s}$ |

**Thermal Characteristics**

|                 |                                        |                        |   |   |     |                           |
|-----------------|----------------------------------------|------------------------|---|---|-----|---------------------------|
| $R_{\theta JC}$ | Thermal Resistance Junction to Case    | TO-247, TO-220, TO-263 | - | - | 1.0 | $^\circ\text{C}/\text{W}$ |
| $R_{\theta JA}$ | Thermal Resistance Junction to Ambient | TO-247                 | - | - | 30  | $^\circ\text{C}/\text{W}$ |
| $R_{\theta JA}$ | Thermal Resistance Junction to Ambient | TO-220, TO-263         | - | - | 62  | $^\circ\text{C}/\text{W}$ |

## Typical Performance Curves

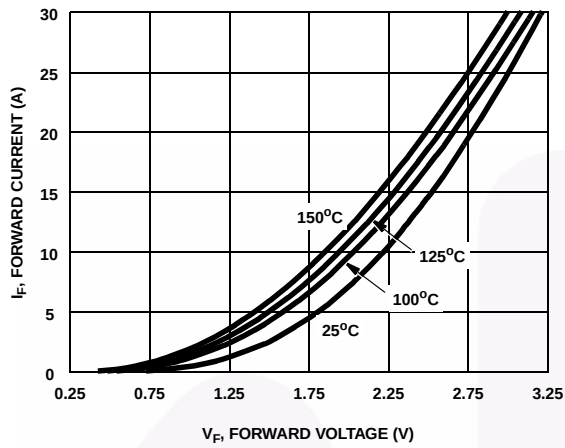


Figure 1. Forward Current vs Forward Voltage

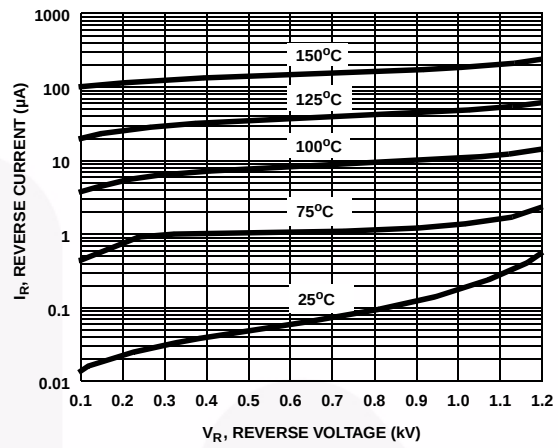


Figure 2. Reverse Current vs Reverse Voltage

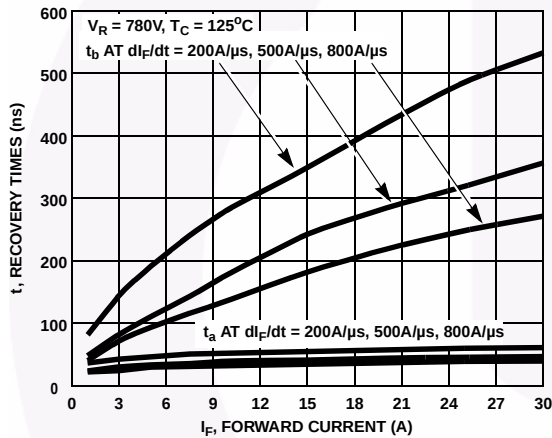


Figure 3.  $t_a$  and  $t_b$  Curves vs Forward Current

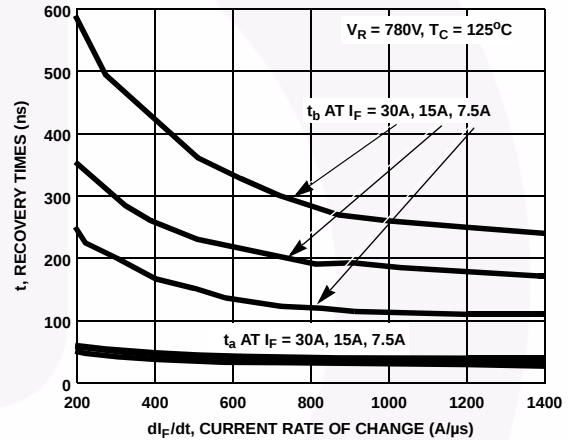


Figure 4.  $t_a$  and  $t_b$  Curves vs  $di_F/dt$

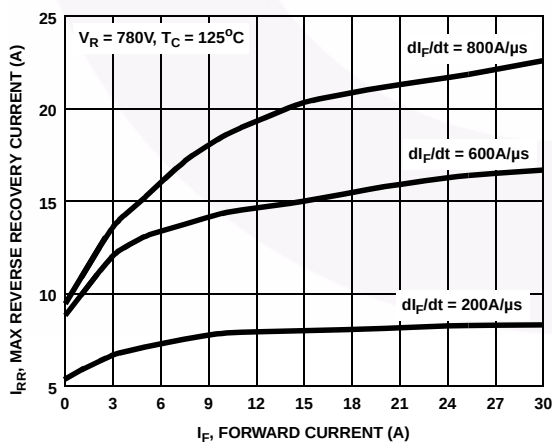


Figure 5. Maximum Reverse Recovery Current vs Forward Current

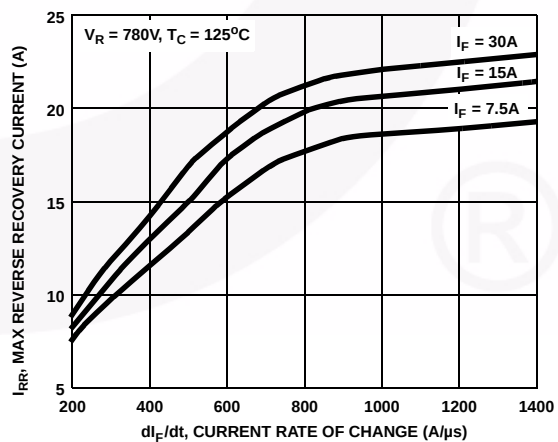


Figure 6. Maximum Reverse Recovery Current vs  $di_F/dt$

## Typical Performance Curves (Continued)

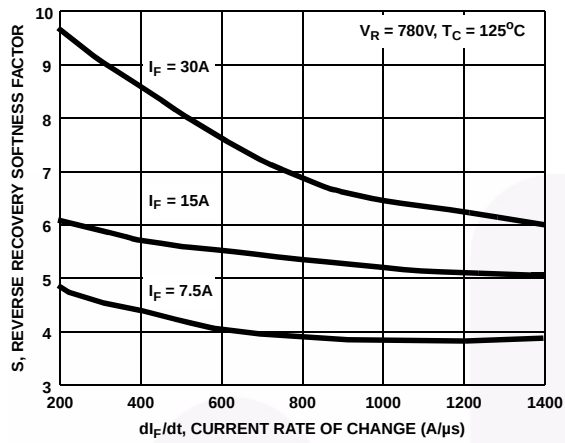


Figure 7. Reverse Recovery Softness Factor vs  $dI_F/dt$

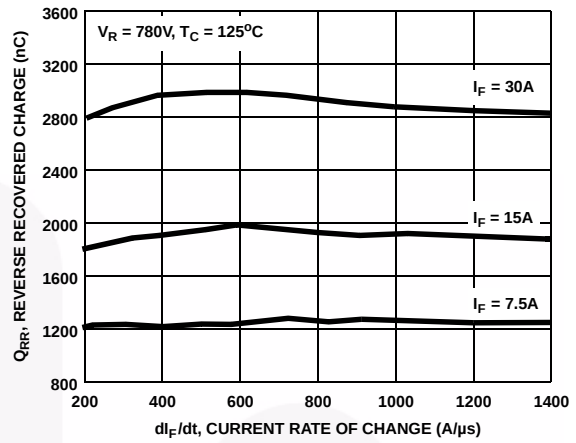


Figure 8. Reverse Recovered Charge vs  $dI_F/dt$

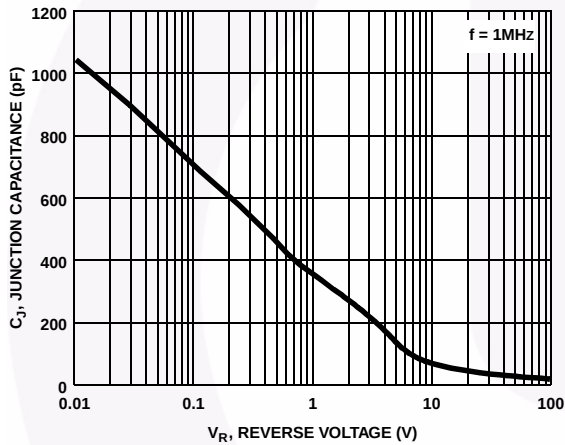


Figure 9. Junction Capacitance vs Reverse Voltage

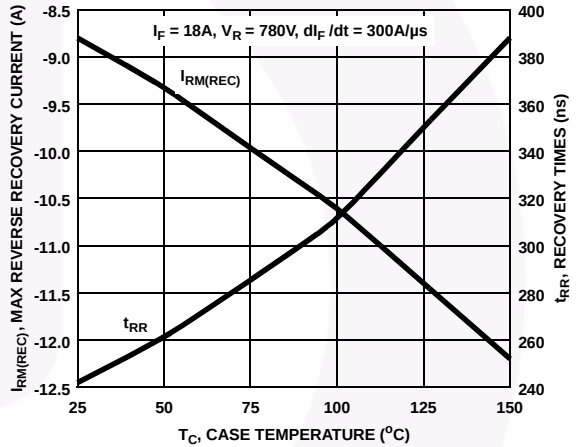


Figure 10. Reverse Recovery Current and Times vs Case Temperature

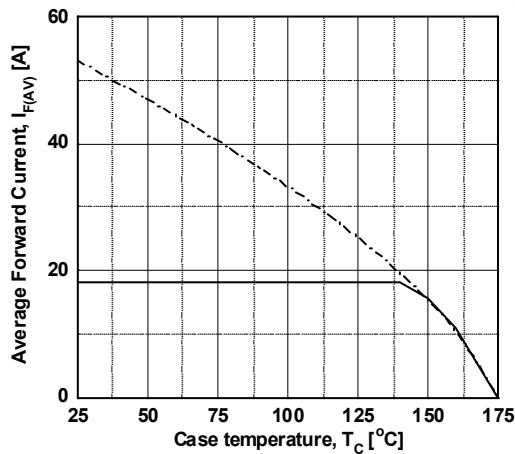


Figure 11. DC Current Derating Curve

## Typical Performance Curves (Continued)

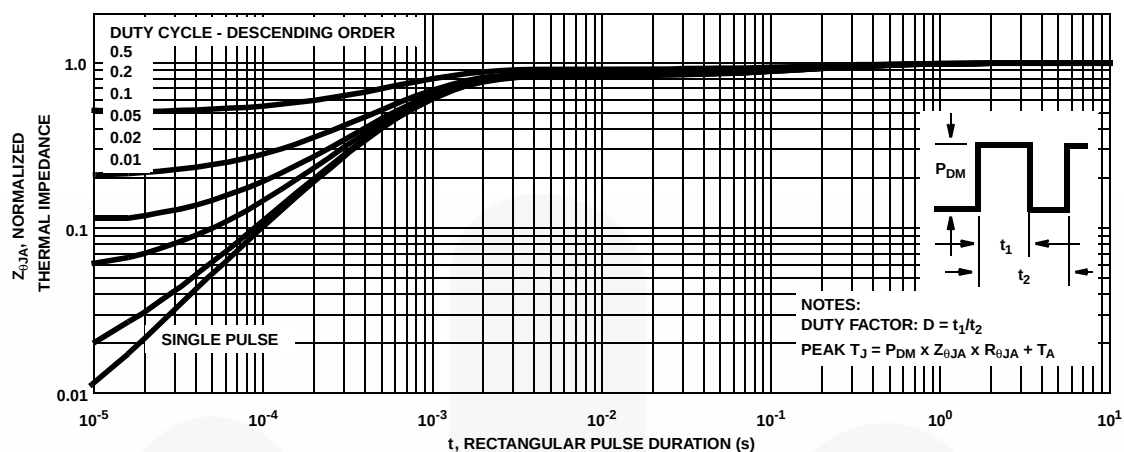


Figure 12. Normalized Maximum Transient Thermal Impedance

## Test Circuit and Waveforms

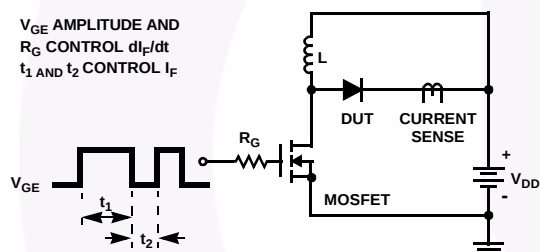


Figure 13.  $t_{tr}$  Test Circuit

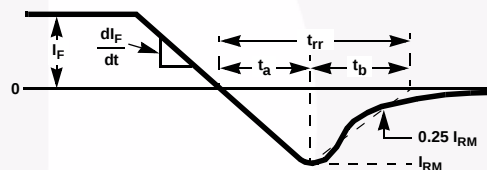


Figure 14.  $t_{tr}$  Waveforms and Definitions

$I = 1A$   
 $L = 40mH$   
 $R < 0.1\Omega$   
 $V_{DD} = 50V$   
 $E_{AVL} = 1/2LI^2 [V_{R(AVL)} / (V_{R(AVL)} - V_{DD})]$   
 $Q_1 = IGBT (BV_{CES} > DUT V_{R(AVL)})$

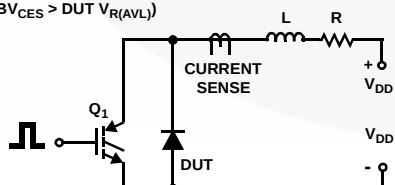


Figure 15. Avalanche Energy Test Circuit

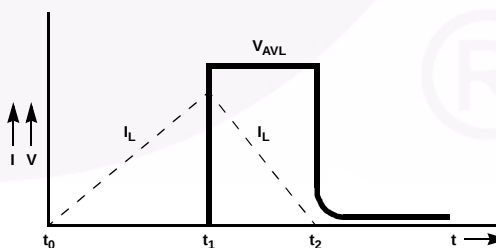


Figure 16. Avalanche Current and Voltage Waveforms

## Mechanical Dimensions

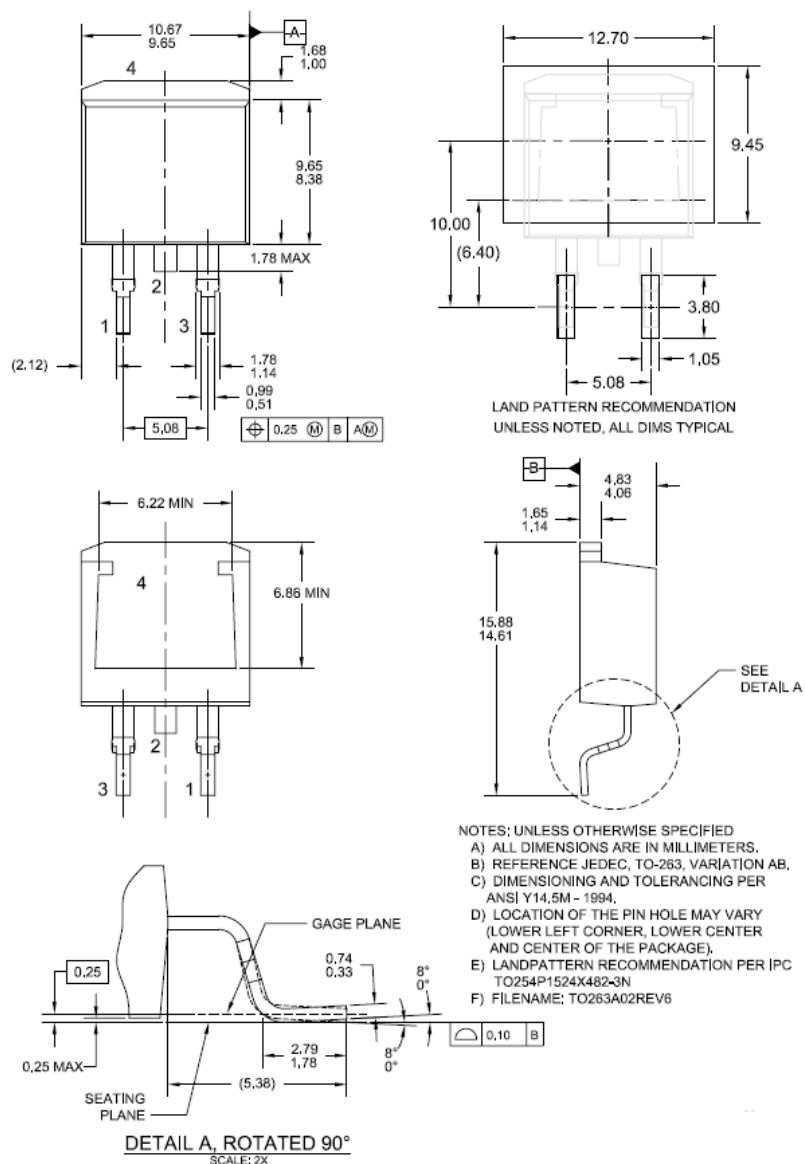


Figure 17. TO-263 2L (D²-PAK) - 2LD, TO263, SURFACE MOUNT

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## Mechanical Dimensions

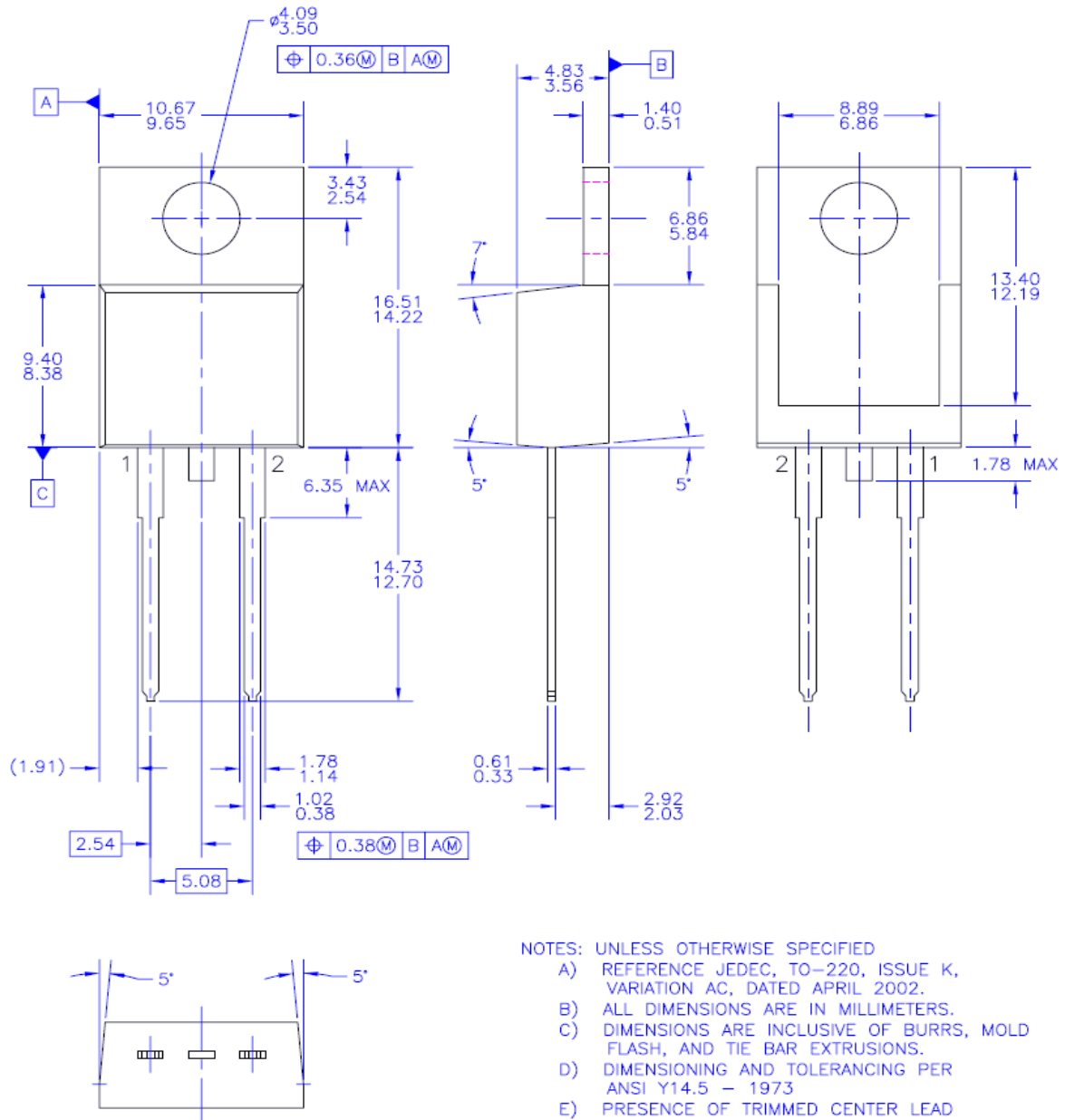


Figure 18. TO-220 2L - 2LD, TO220, JEDEC TO-220 VARIATION AC

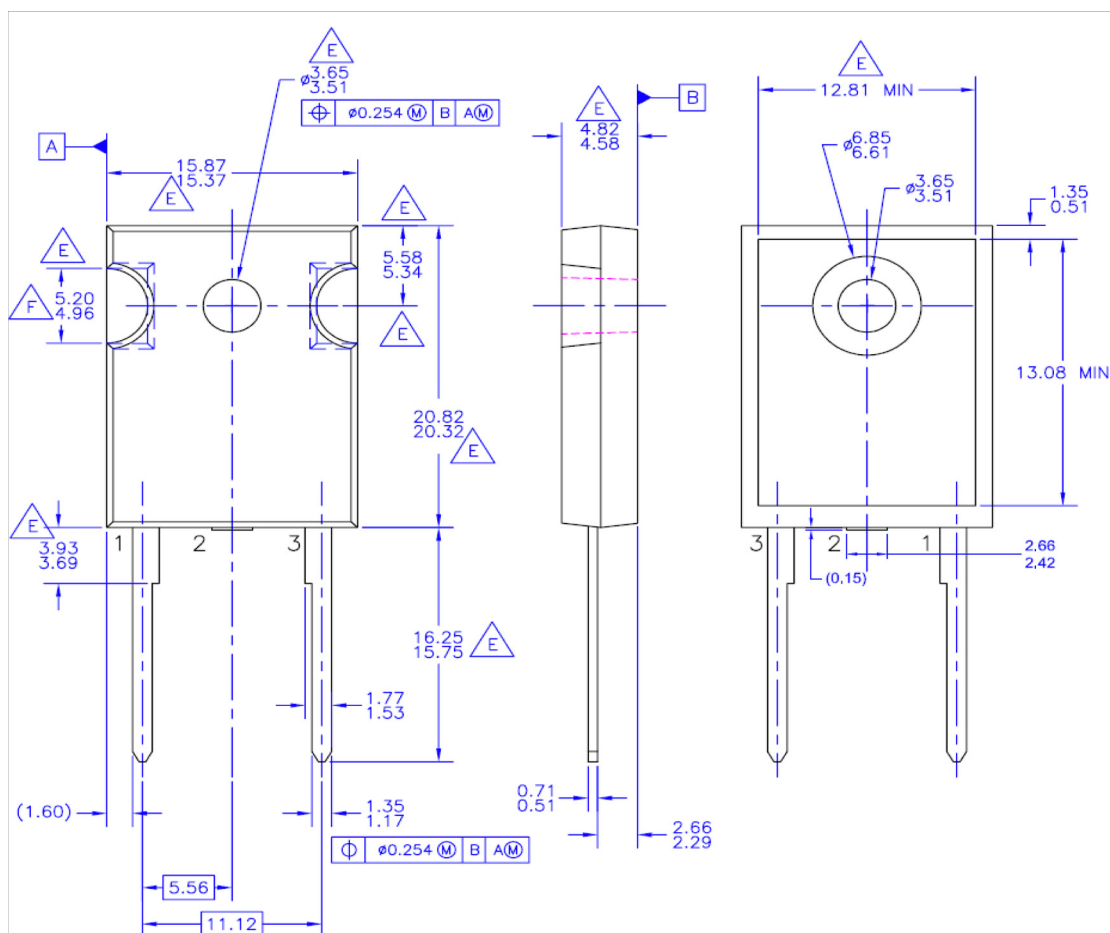
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# Mechanical Dimensions

## TO247-2L



- NOTES: UNLESS OTHERWISE SPECIFIED
- A. PACKAGE REFERENCE: JEDEC TO-247, ISSUE E, VARIATION AB, DATED JUNE, 2004.
  - B. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
  - C. ALL DIMENSIONS ARE IN MILLIMETERS.
  - D. DRAWING CONFORMS TO ASME Y14.5 - 1994
  - E. DOES NOT COMPLY JEDEC STANDARD VALUE
  - F. NOTCH MAY BE SQUARE
  - G. DRAWING FILENAME: MKT-TO247B02\_REV02

**Figure 9. TO-247, Molded, 2LD, Jedec Option AB**

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| AX-CAP®*                                                                          | FRFET®                                         | PowerTrench®                                                                      | SYSTEM GENERAL®                                                                     |
| BitSiC™                                                                           | Global Power Resource™                         | PowerXS™                                                                          | TinyBoost®                                                                          |
| Build it Now™                                                                     | GreenBridge™                                   | Programmable Active Droop™                                                        | TinyBuck®                                                                           |
| CorePLUS™                                                                         | Green FPS™                                     | QFET®                                                                             | TinyCalc™                                                                           |
| CorePOWER™                                                                        | Green FPS™ e-Series™                           | QS™                                                                               | TinyLogic®                                                                          |
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| CTL™                                                                              | GTO™                                           | RapidConfigure™                                                                   | TinyPower™                                                                          |
| Current Transfer Logic™                                                           | IntelliMAX™                                    |  | TinyPWM™                                                                            |
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| EfficientMax™                                                                     | MICROCOUPLER™                                  | SMART START™                                                                      | TRUECURRENT®*                                                                       |
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|  | MicroPak™                                      | SPM®                                                                              |  |
| Fairchild                                                                         | MicroPak2™                                     | STEALTH™                                                                          | UHC®                                                                                |
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| FACT Quiet Series™                                                                | MotionMax™                                     | SuperSOT™-3                                                                       | UniFET™                                                                             |
| FACT®                                                                             | mWSaver®                                       | SuperSOT™-6                                                                       | VCX™                                                                                |
| FAST®                                                                             | OptoHiT™                                       | SuperSOT™-8                                                                       | VisualMax™                                                                          |
| FastvCore™                                                                        | OPTOLOGIC®                                     | SupreMOS®                                                                         | VoltagePlus™                                                                        |
| FETBench™                                                                         | OPTOPLANAR®                                    | SyncFET™                                                                          | XS™                                                                                 |
| FPS™                                                                              |                                                |                                                                                   |                                                                                     |

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### Definition of Terms

| Datasheet Identification | Product Status        | Definition                                                                                                                                                                                          |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advance Information      | Formative / In Design | Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.                                                                       |
| Preliminary              | First Production      | Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design. |
| No Identification Needed | Full Production       | Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.                                               |
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