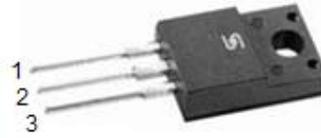
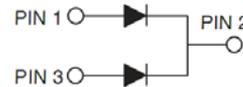


Dual Common Cathode Schottky Rectifier

FEATURES

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition


ITO-220AB


MECHANICAL DATA

Case: ITO-220AB

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - halogen-free

Base P/N with prefix "H" on packing code - AEC-Q101 qualified

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 5 in-lbs maximum

Weight: 1.7 g (approximately)

| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted) | | | | | | | | | | | |
|--|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------|-------------|-------------|-------------|------|
| PARAMETER | SYMBOL | MBRF | MBRF | MBRF | MBRF | MBRF | MBRF | MBRF | MBRF | MBRF | UNIT |
| | | 2035 CT | 2045 CT | 2050 CT | 2060 CT | 2080 CT | 2090 CT | 20100 CT | 20150 CT | 20200 CT | |
| Maximum repetitive peak reverse voltage | V _{RRM} | 35 | 45 | 50 | 60 | 80 | 90 | 100 | 150 | 200 | V |
| Maximum RMS voltage | V _{RMS} | 24 | 31 | 35 | 42 | 56 | 63 | 70 | 105 | 140 | V |
| Maximum DC blocking voltage | V _{DC} | 35 | 45 | 50 | 60 | 80 | 90 | 100 | 150 | 200 | V |
| Maximum average forward rectified current | I _{F(AV)} | 20 | | | | | | | | | A |
| Peak repetitive forward current (Rated VR, Square wave, 20KHz) | I _{FRM} | 20 | | | | | | | | | A |
| Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load | I _{FSM} | 150 | | | | | | | | | A |
| Peak repetitive reverse surge current (Note 1) | I _{RRM} | 1 | | 0.5 | | | | | | A | |
| Maximum instantaneous forward voltage (Note 2) I _F = 10 A, T _J =25°C I _F = 10 A, T _J =125°C I _F = 20 A, T _J =25°C I _F = 20 A, T _J =125°C | V _F | 0.80 0.57 0.84 0.72 | 0.80 0.70 0.95 0.85 | 0.80 0.65 1.00 0.75 | 0.85 0.75 0.95 0.85 | 0.95 0.85 1.05 0.95 | | | | | V |
| Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C | I _R | 0.1 | | | | | | | | | mA |
| | | 15 | 10 | 30 | 5 | 2 | | | | | |
| Voltage rate of change (Rated V _R) | dV/dt | 10000 | | | | | | | | | V/μs |
| Isolation voltage from terminals to heatsink with t=1.0 min | V _{AC} | 1500 | | | | | | | | | V |
| Typical thermal resistance | R _{θJC} | 1.5 | | | | 3.5 | | | | | °C/W |
| Operating junction temperature range | T _J | - 55 to +150 | | | | | | | | | °C |
| Storage temperature range | T _{STG} | - 55 to +150 | | | | | | | | | °C |

Note 1: t_p = 2.0 μs, 1.0KHz

Note 2: Pulse test with PW=300μs, 1% duty cycle

| ORDERING INFORMATION | | | | | |
|----------------------|--------------------|--------------|---------------------|-----------|-----------|
| PART NO. | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND CODE | PACKAGE | PACKING |
| MBRF20xxCT (Note 1) | Prefix "H" | C0 | Suffix "G" | ITO-220AB | 50 / Tube |

Note 1: "xx" defines voltage from 35V (MBRF2035CT) to 200V (MBRF20200CT)

| EXAMPLE | | | | | |
|----------------|------------|--------------------|--------------|----------------|--------------------|
| PREFERRED P/N | PART NO. | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND | DESCRIPTION |
| MBRF2060CT C0 | MBRF2060CT | | C0 | | |
| MBRF2060CT C0G | MBRF2060CT | | C0 | G | Green compound |
| MBRF2060CTHC0 | MBRF2060CT | H | C0 | | AEC-Q101 qualified |

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

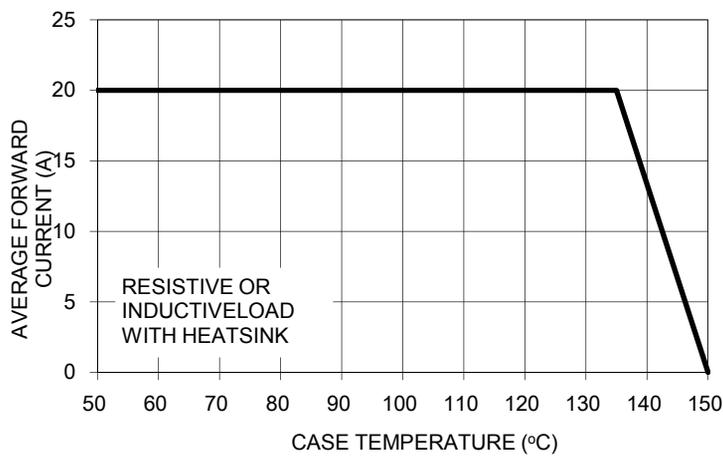


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

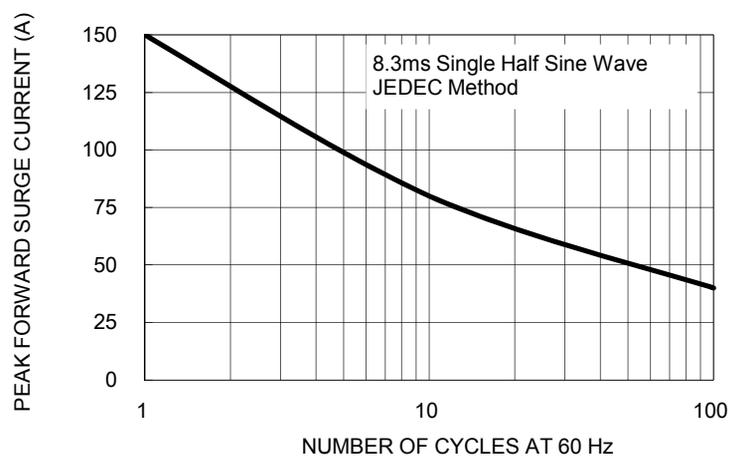


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

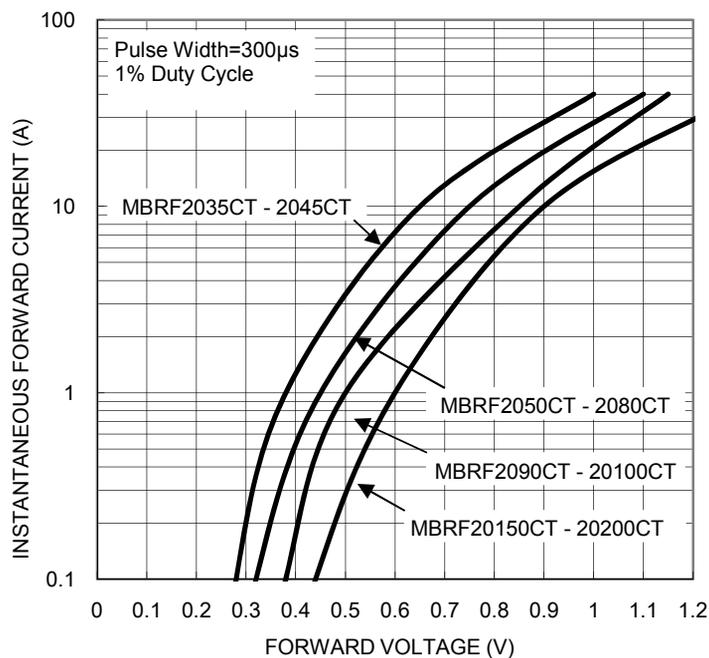
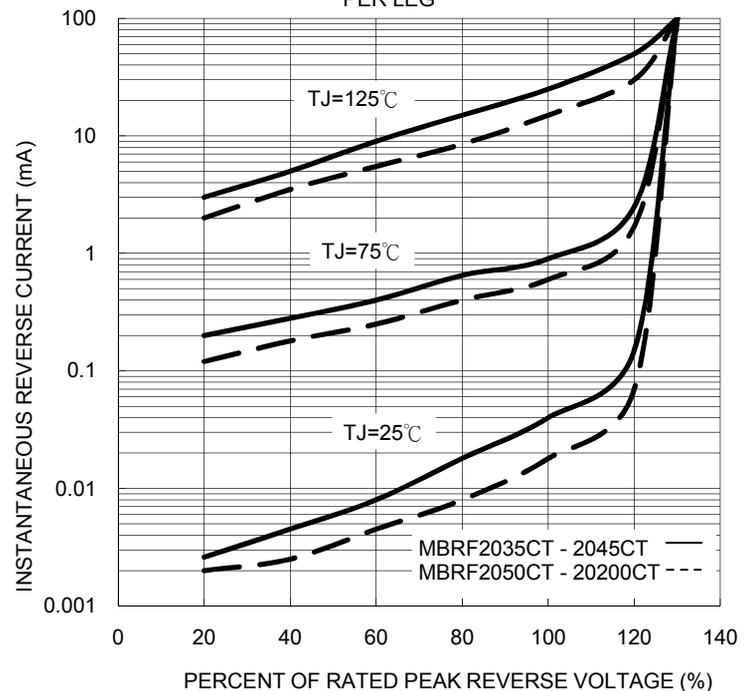
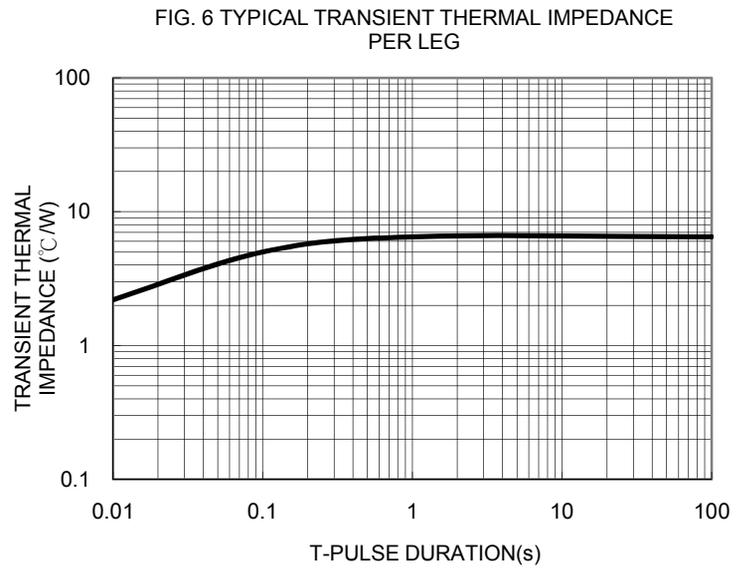
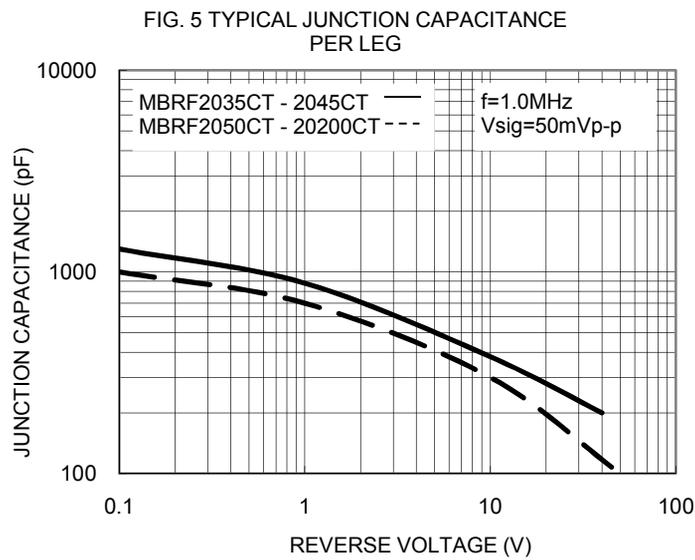
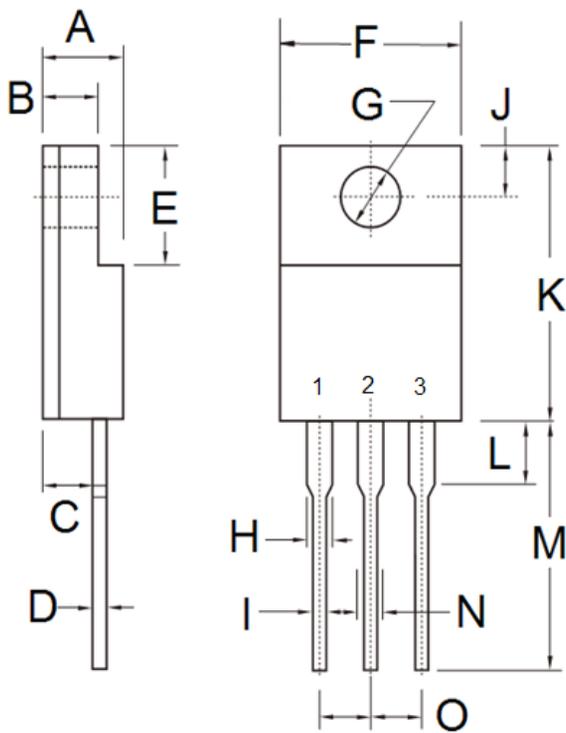


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG





PACKAGE OUTLINE DIMENSIONS



| DIM. | Unit (mm) | | Unit (inch) | |
|------|-----------|-------|-------------|-------|
| | Min | Max | Min | Max |
| A | 4.30 | 4.70 | 0.169 | 0.185 |
| B | 2.50 | 3.16 | 0.098 | 0.124 |
| C | 2.30 | 2.96 | 0.091 | 0.117 |
| D | 0.46 | 0.76 | 0.018 | 0.030 |
| E | 6.30 | 6.90 | 0.248 | 0.272 |
| F | 9.60 | 10.30 | 0.378 | 0.406 |
| G | 3.00 | 3.40 | 0.118 | 0.134 |
| H | 0.95 | 1.45 | 0.037 | 0.057 |
| I | 0.50 | 0.90 | 0.020 | 0.035 |
| J | 2.40 | 3.20 | 0.094 | 0.126 |
| K | 14.80 | 15.50 | 0.583 | 0.610 |
| L | - | 4.10 | - | 0.161 |
| M | 12.60 | 13.80 | 0.496 | 0.543 |
| N | - | 1.80 | - | 0.071 |
| O | 2.41 | 2.67 | 0.095 | 0.105 |

MARKING DIAGRAM



- P/N = Specific Device Code
- G = Green Compound
- YWW = Date Code
- F = Factory Code

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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