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FEATURES

- Trench MOS schottky barrier diode
- Low forward voltage drop
- Low profile typical body height 1.1 mm
- High temperature soldering guaranteed: 260 ℃/10 seconds
- RoHS compliant
- Halogen-free according to IEC 61249-2-21 definition

TO-277B Reach

MECHANICAL DATA

- Case: TO-277B
- Case material: molding compound meets UL 94V-0 flammability rating

TYPICAL APPLICATION

General purpose use in AC to DC wave rectification for SMPS, lighting, adapter, charger, home appliance, office equipment and telecommunication.

MAXIMUM RATINGS

T_A=25℃ unless otherwise noted

| Parameter | Symbol | Value | Unit |
|--|--------------------|-------------|------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 100 | V |
| Average Forward Rectified Current | I _{F(AV)} | 15 | Α |
| Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load) | I _{FSM} | 240 | А |
| Operating Junction Temperature Range | T _J | -55 to +150 | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | $^{\circ}$ |

ELECTRICAL CHARACTERISTICS

T_A=25°C unless otherwise noted

| Parameter. | Test Conditions | Symbol | Value | | l lmi4 |
|--|----------------------|-----------------|-------|------|--------|
| Parameter | | | Тур. | Max. | Unit |
| Forward Voltage@I _F =3A | T _A =25℃ | V _F | 0.45 | 0.49 | V |
| | T _A =125℃ | | 0.4 | 0.44 | |
| Forward Voltage@I _F =15A | T _A =25℃ | | 0.67 | 0.7 | |
| | T _A =125℃ | | 0.6 | 0.63 | |
| Reverse Current @ V _{RRM} | T _A =25℃ | I _R | 25 | 70 | uA |
| | T _A =125℃ | | 10 | 50 | mA |
| Typical Thermal Resistance (junction to ambient) | | $R_{\theta JA}$ | 102 | | °C/W |



0000 - 1 - REV.E(3)



RATINGS AND CHARACTERISTIC CURVES

T_A=25℃ unless otherwise noted

FIG.1: Forward Output Current **Derating Curve**

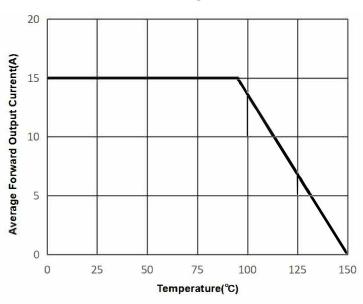


FIG.2: Maximum Non-Repetitive Peak **Forward Surge Current**

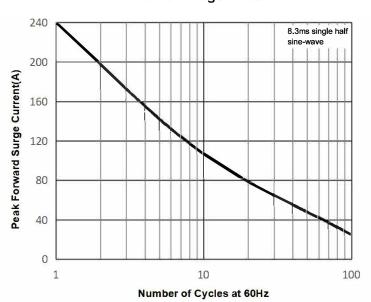


FIG.3: Typical Forward Characteristics

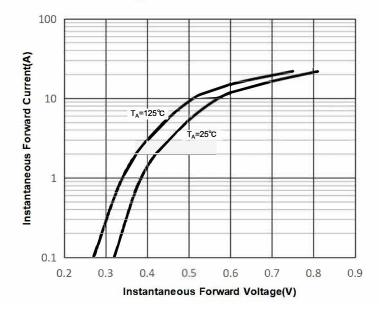
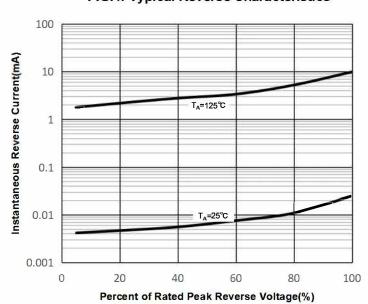


FIG.4: Typical Reverse Characteristics

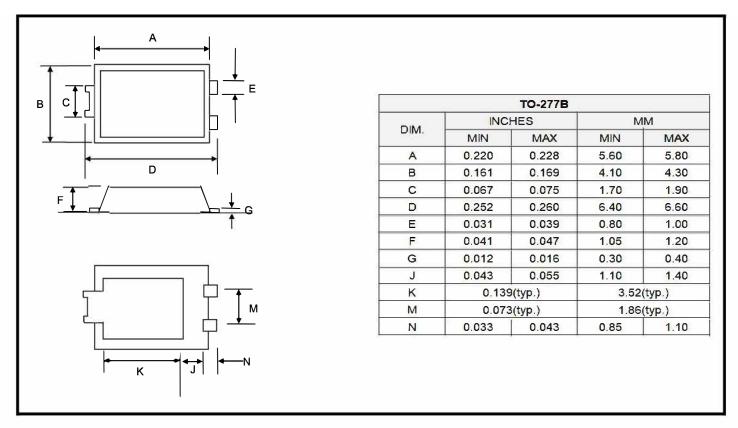


0000 - 2 -REV.E(3)



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PACKAGE OUTLINE DIMENSIONS



PACKING INFORMATION

| Package | Reel(PCS) | Inner Box(PCS) | Carton(PCS) |
|---------|-----------|----------------|-------------|
| TO-277B | 5,000 | 10,000 | 80,000 |



0000 - 3 - REV.E(3)



15A, 100V Low Forward Voltage Schottky Rectifier

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0000 - 4 - REV.E(3)