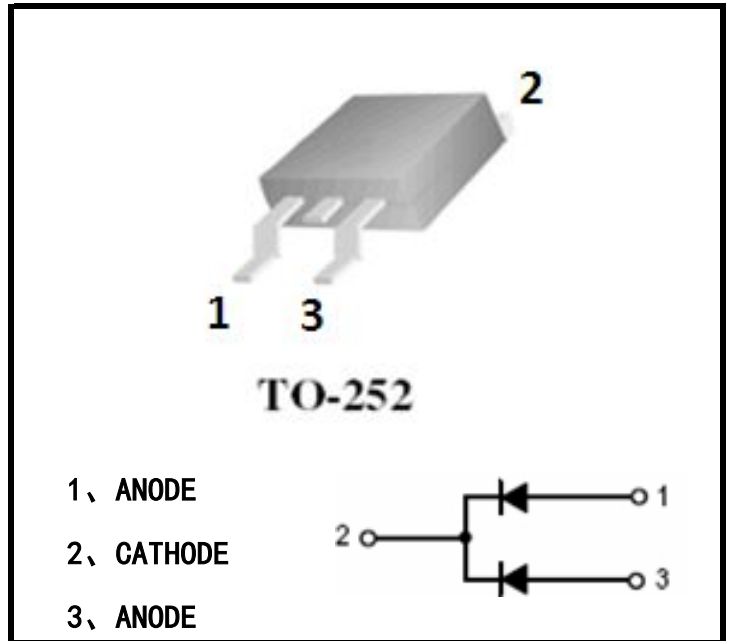




FEATURES

- * Schottky Barrier Chip
- * Guard Ring Die Construction for Transient Protection
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * High Current Capability and Low Forward Voltage Drop
- * For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications

PACKAGE

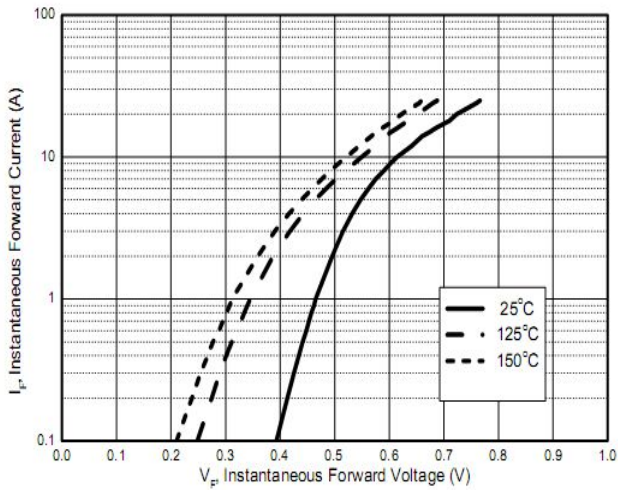


ELECTRICAL CHARACTERISTICS (Tamb=25°C)

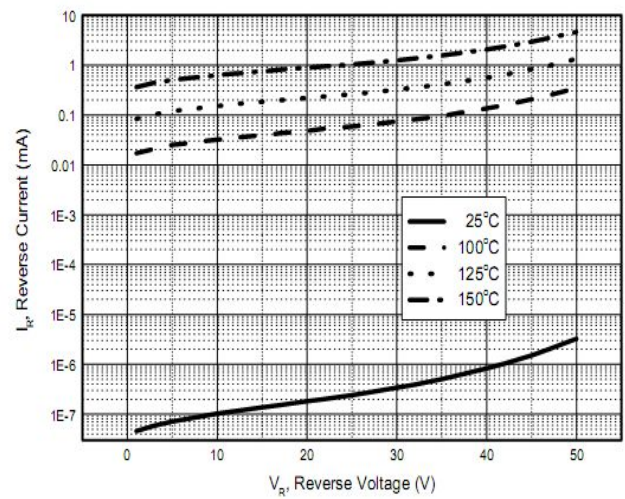
| Characteristic | Symbol | Value | Unit |
|--|-------------------|-------------|------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 45 | V |
| Working Peak Reverse Voltage | V_{RWM} | | |
| DC Blocking Voltage | V_R | | |
| Average Rectifide Output Current | $I_{F(per\ leg)}$ | 15 | A |
| | $I_{F(Total)}$ | 30 | |
| Non-Repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60Hz) | I_{FSM} | 275 | A |
| Maximum Instaneous Forward Voltage @IF=15A, TC=25°C @IF=15A, TC=125°C | V_F | 0.65 | V |
| | | 0.55 | |
| Peak Reverse Current @Tc=25 °C at Rated DC Blocking Voltage @Tc=125°C | I_R | 0.15 | mA |
| | | 15 | |
| Operating and Storage Temperature Range | T_J, T_{STG} | -65 to +150 | °C |
| Maximum Thermal Resistance | θ_{JC} | 3 | °C/W |
| | θ_{JA} | 60 | |



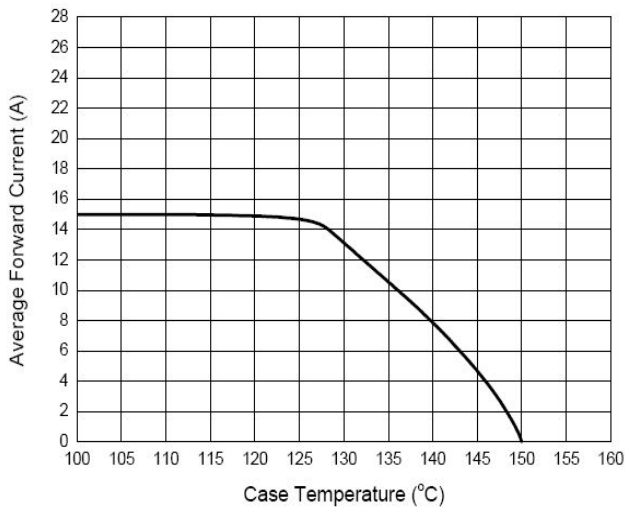
Characteristics Curves



Typical Forward Voltage



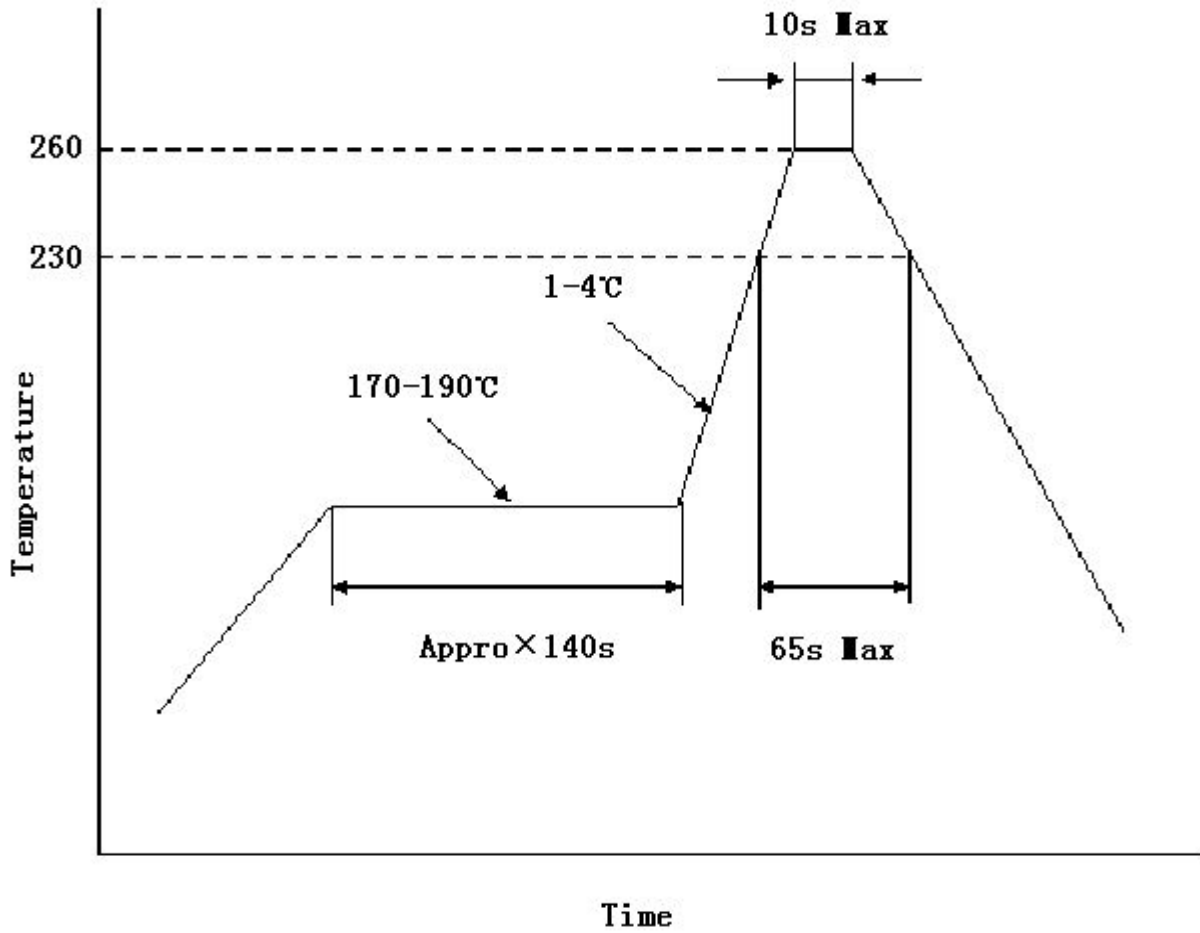
Typical Reverse Current



Average Forward Current vs. Case Temperature Per Diode



■ Reflow Soldering Temperature Profile





T0-252 MECHANICAL DATA

UNIT: mm

| SYMBOL | MIN | NOM | MAX | SYMBOL | MIN | NOM | MAX |
|--------|------|-----|------|--------|------|------|-------|
| A | 2.10 | | 2.50 | E | 5.80 | | 6.30 |
| B | 0.80 | | 1.25 | e1 | 2.25 | 2.30 | 2.35 |
| b | 0.50 | | 0.85 | e2 | 4.45 | | 4.75 |
| b1 | 0.50 | | 0.90 | L1 | 9.50 | | 10.20 |
| b2 | 0.45 | | 0.60 | L2 | 0.90 | | 1.45 |
| C | 0.45 | | 0.60 | L3 | 0.60 | | 1.10 |
| D | 6.35 | | 6.75 | K | -0.1 | | 0.10 |
| D1 | 5.10 | | 5.50 | | | | |

