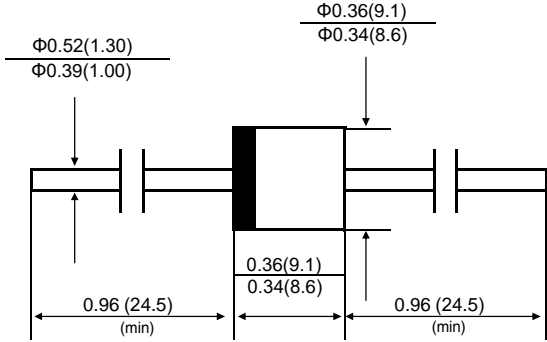


■ Outline Dimensions and Mark

R-6



inch (mm)

■ Features

Reverse Voltage 1000 V

Forward Current 8 A

- Low reverse leakage current
- Low forward voltage drop COMPLIANT
- High surge capacity
- Meet UL flammability classification 94V-0

■ Limiting Values (Absolute Maximum Rating)

| Item | Symbol | Unit | Conditions | 8A10G |
|--------------------------------------|-------------|-------------|---|----------|
| Repetitive Peak Reverse Voltage | V_{RRM} | V | | 1000 |
| Average Forward Current | $I_{F(AV)}$ | A | 60Hz Half-sine wave, Resistance load, $T_j=50^{\circ}C$ | 8 |
| Surge(Non-repetitive)Forward Current | I_{FSM} | A | 60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$ | 240 |
| Junction Temperature | T_j | $^{\circ}C$ | | -55~+150 |
| Storage Temperature | T_{STG} | $^{\circ}C$ | | -55~+150 |

■ Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

| Item | Symbol | Unit | Test Condition | Max | |
|--|------------------|---------------|---------------------------|--------------------|----|
| Peak Forward Voltage ^(Note1) | V_{FM} | V | $I_{FM}=8A$ | 1.1 | |
| Peak Reverse Current | I_{RRM1} | μA | $V_{RM}=V_{RRM}$ | $T_j=25^{\circ}C$ | 1 |
| | I_{RRM2} | | | $T_j=125^{\circ}C$ | 50 |
| Thermal Resistance(Typical) ^(Note3) | $R_{\theta J-C}$ | $^{\circ}C/W$ | Between junction and case | 10 | |

Notes: 1. 300uS pulse width, 2%duty cycle.

2. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted.

3. The typical data above is for reference only.

■ **Characteristics(Typical)**

FIG.1: FORWARD CURRENT DERATING CURVE

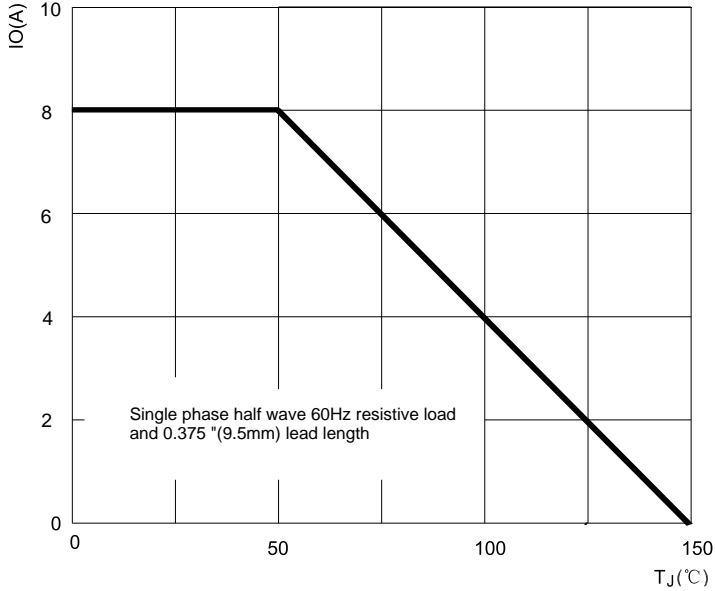


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

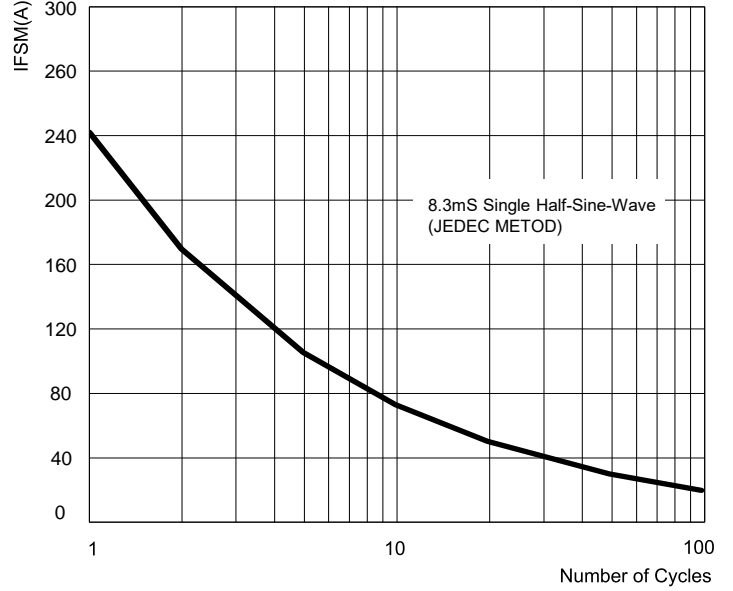


FIG.3: TYPICAL FORWARD CHARACTERISTICS

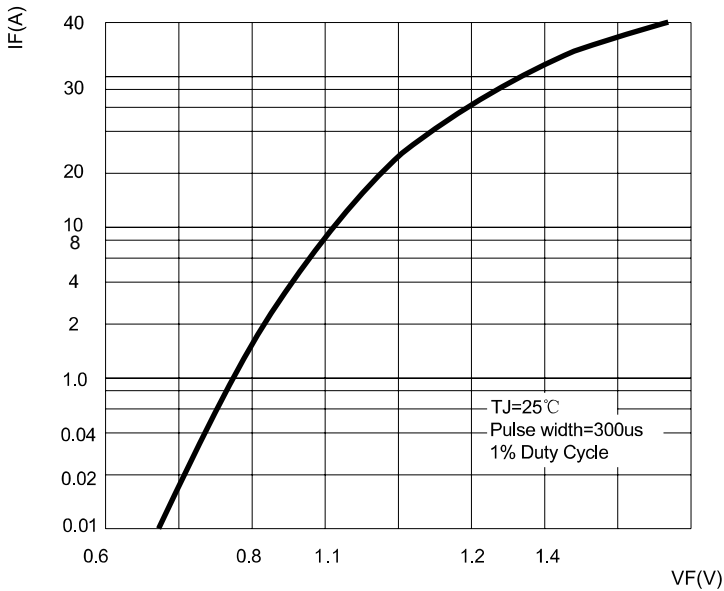
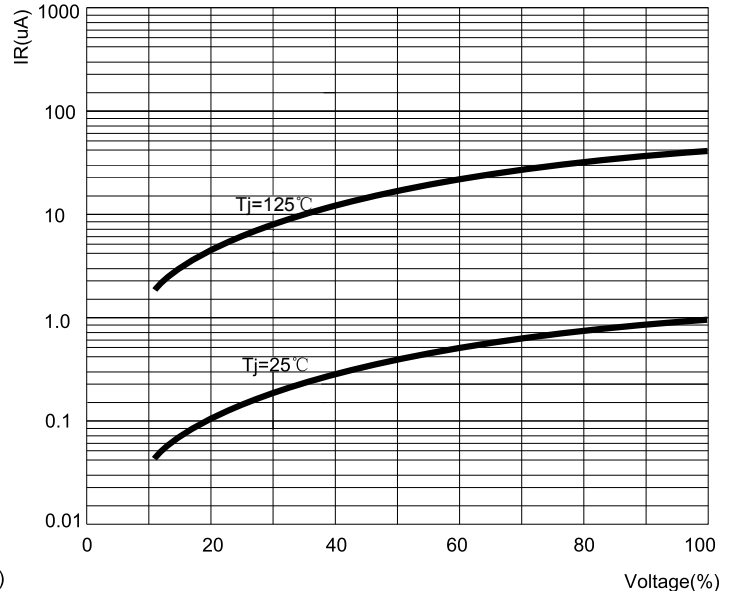


FIG.4: TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.

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