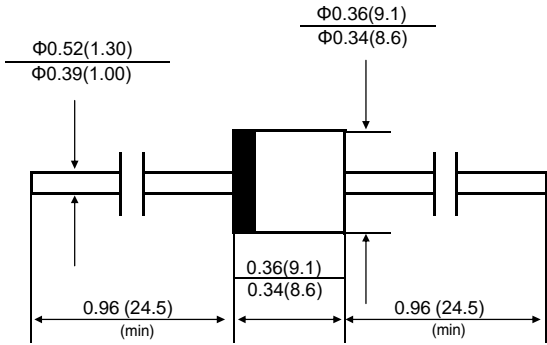


■ Outline Dimensions and Mark

R-6



inch (mm)

■ Features

Reverse Voltage 1000 V

Forward Current 10 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	10A10G
Repetitive Peak Reverse Voltage	V_{RRM}	V		1000
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_j=50^\circ\text{C}$	10
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	300
Junction Temperature	T_j	$^\circ\text{C}$		-55~+150
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55~+150

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

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage ^(Note1)	V_{FM}	V	$I_{FM}=10\text{A}$	1.1	
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_j=25^\circ\text{C}$	1
	I_{RRM2}			$T_j=125^\circ\text{C}$	50
Thermal Resistance(Typical) ^(Note2)	$R_{\theta J-C}$	$^\circ\text{C/W}$	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

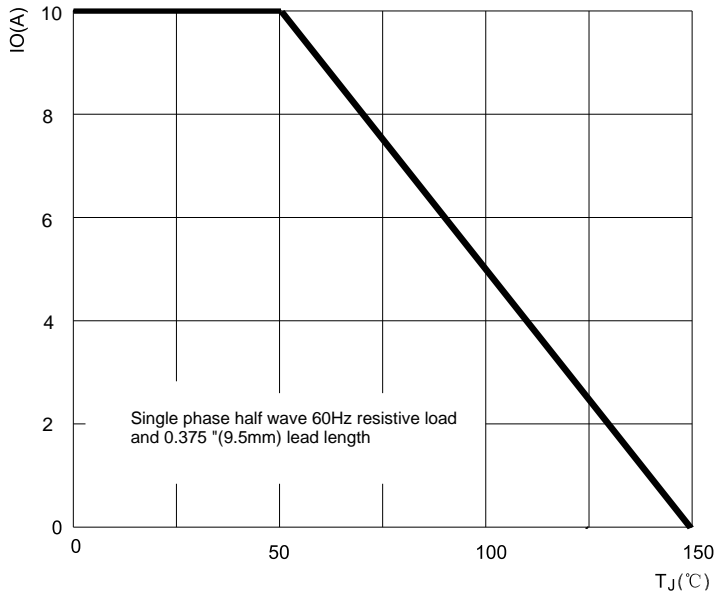


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

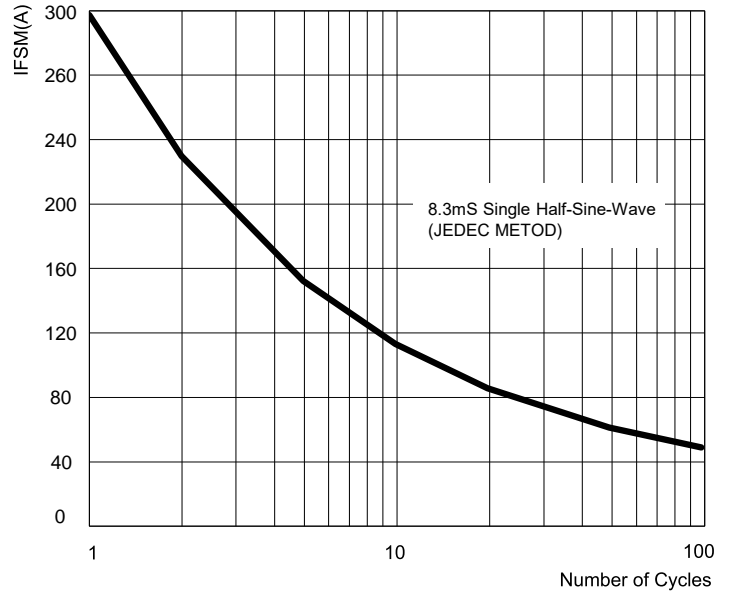


FIG.3: TYPICAL FORWARD CHARACTERISTICS

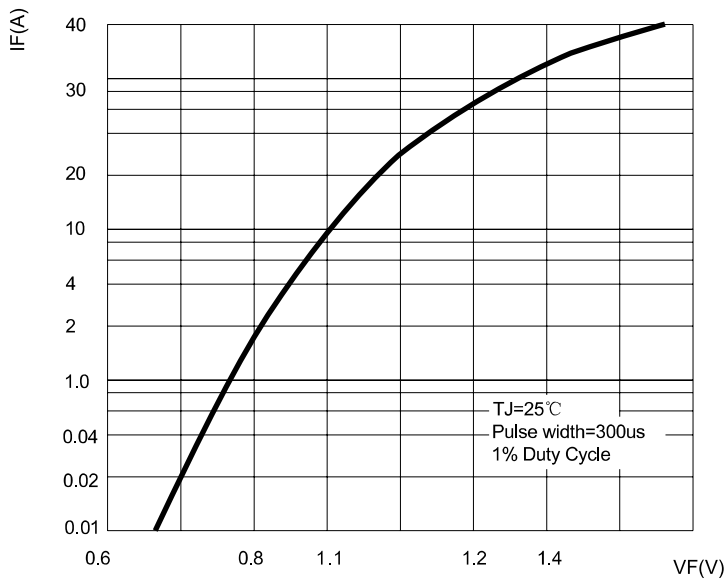
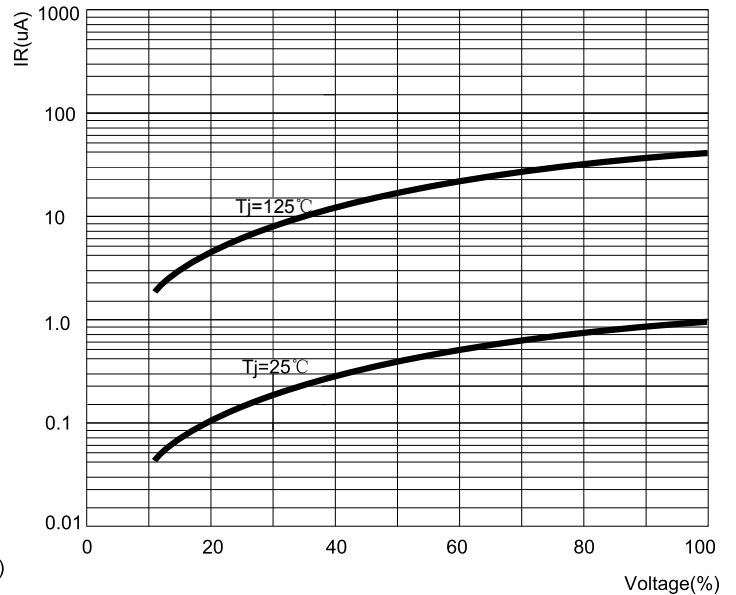


FIG.4: TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.

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