

RoHS Compliant Product
 A suffix of "-C" specifies halogen free

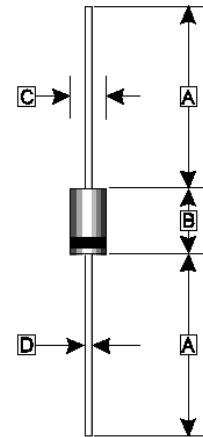
FEATURES

- Guarding for overvoltage protection
- Very small conduction losses
- Low forward voltage drop

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Cathode band
- Mounting position: Any

DO-27(DO-201)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.50
C	4.80	5.60
D	0.96	1.32

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current	I_F	5	A
Peak Forward Surge Current@ 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	100	A
Maximum Instantaneous Forward Voltage	V_F	$I_F=2A, T_A=25^{\circ}C$	0.59 (Typ.)
		$I_F=5A, T_A=25^{\circ}C$	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A=25^{\circ}C$	0.2
		$T_A=100^{\circ}C$	
Typical Junction Capacitance ¹	C_J	720	pF
Typical Thermal Resistance from Junction to Case	$R_{\theta JC}$	15	°C /W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	150, -55~150	°C

Notes:

1. Measured at 1MHz and applied with 4V D.C reverse voltage.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-Typical Forward Current Derating Curve

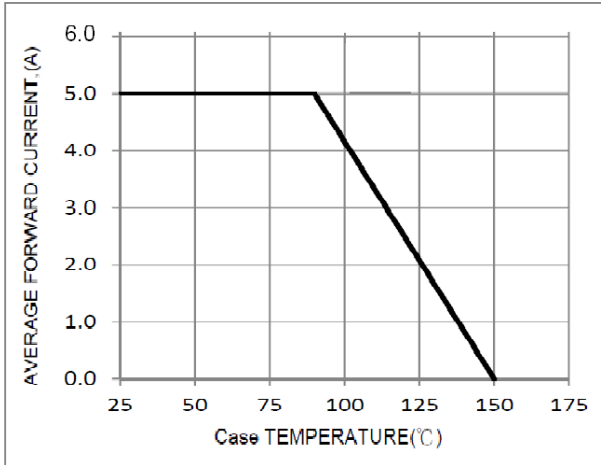


FIG. 2-Typical Forward Characteristics

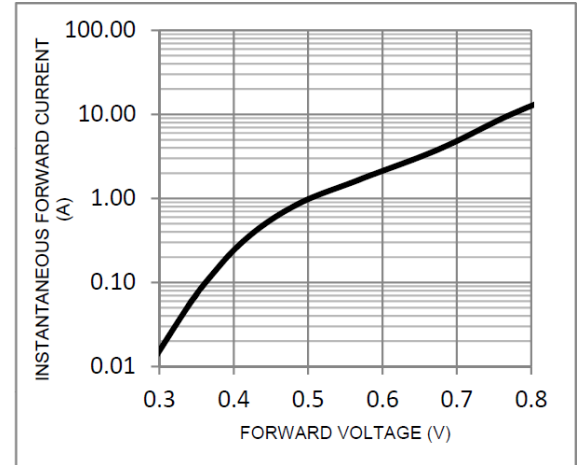


FIG. 3-Maximum Non-Repetitive Forward Surge Current

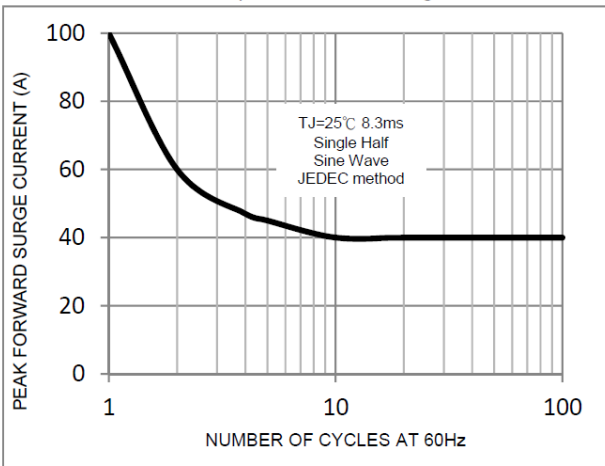


FIG. 4-Typical Reverse Characteristics

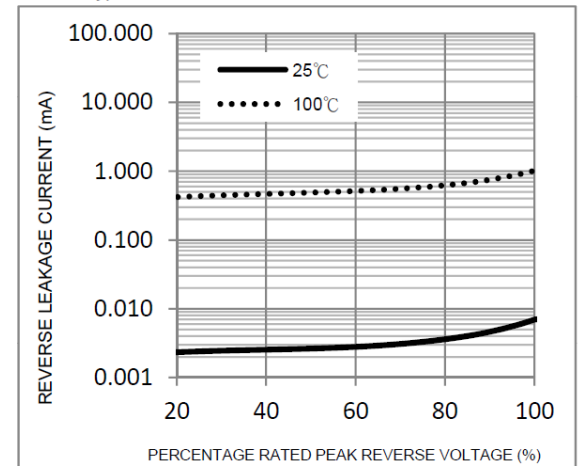


FIG. 5-Typical Junction Capacitance

