

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

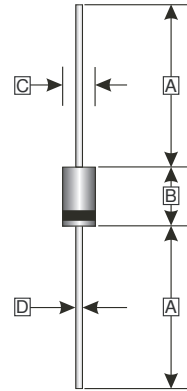
## FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

## MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.10 grams (approximately)

DO-27



ESD  
Protection Diode  
±8KV

REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.53
C	5.00	5.60
D	1.20	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%.)

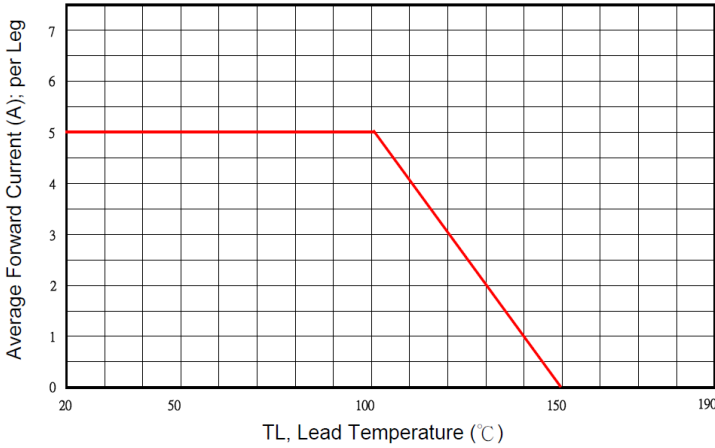
Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	150	V
Working Peak Reverse Voltage	$V_{RWM}$	150	V
Maximum DC Blocking Voltage	$V_{DC}$	150	V
Maximum Average Forward Rectified Current (See Fig.1)	$I_{AV}$	5	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	150	A
Instantaneous Forward Voltage	$V_F$	$I_F=5A, T_F=25^\circ C$	0.85
		$I_F=5A, T_F=100^\circ C$	0.72
Maximum DC Reverse Current at Rated DC Blocking Voltage <sup>3</sup>	$I_R$	$T_A=25^\circ C$	0.05
		$T_A=100^\circ C$	8
Typical Junction Capacitance <sup>1</sup>	$C_J$	350	pF
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JL}$	10	°C / W
Electrostatic Discharge	$V_{ESD}$	±8	kV
Operating & Storage Temperature	$T_J, T_{STG}$	-50~150, -65~175	°C

Note:

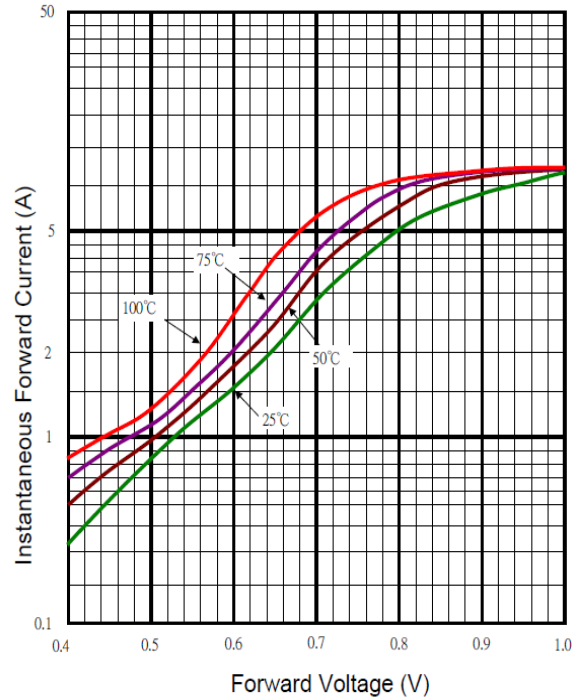
1. Measured at 1 MHz and applied reverse voltage of 5.0V D.C
2. Thermal Resistance Junction to Lead.
3. Pulse test: 300uS pulse width, 1% duty cycle.

**RATINGS AND CHARACTERISTIC CURVES**

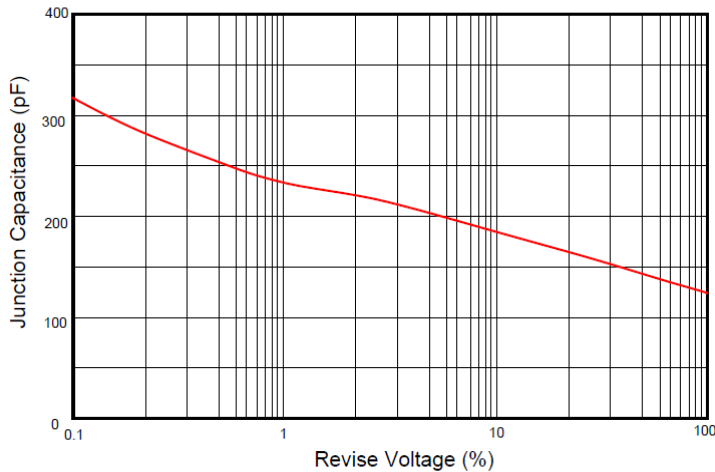
Typical Forward Current Derating Curve



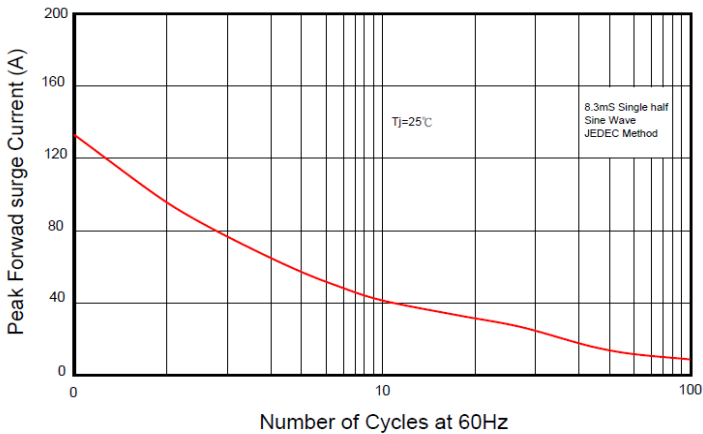
Typical Forward Characteristic



Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

