

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

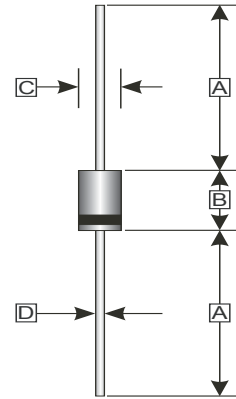
FEATURES

- 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: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 1.10 grams (approximately)

DO-27



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%.)

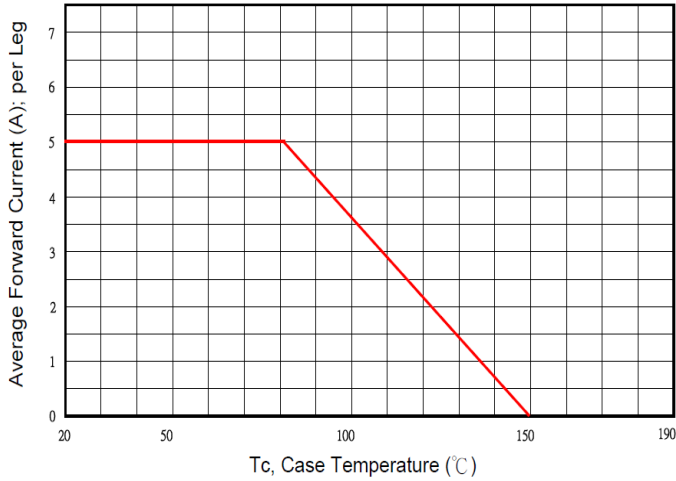
Parameter	Symbol	Rating	Unit
Recurrent Peak Reverse Voltage (Max.)	V_{RRM}	150	V
Working Peak Reverse Voltage	V_{RWM}	150	V
DC Blocking Voltage (Max.)	V_{DC}	150	V
Average Forward Rectified Current (Max.)	I_{AV}	5	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	A
Instantaneous Forward Voltage	V_F	$I_F=5A, T_A=25^\circ C$	0.85
		$I_F=5A, T_A=125^\circ C$	0.72
DC Reverse Current	I_R	$T_A=25^\circ C$	0.05
		$T_A=100^\circ C$	8
Junction Capacitance (Typ.) ¹	C_J	350	pF
Thermal Resistance (Typ.) ²	$R_{\theta JA}$	25	°C/W
Thermal Resistance (Typ.) ³	$R_{\theta JC}$	15	°C/W
Operating & Storage Temperature	T_J, T_{STG}	-50~150, -65~175	°C

Note:

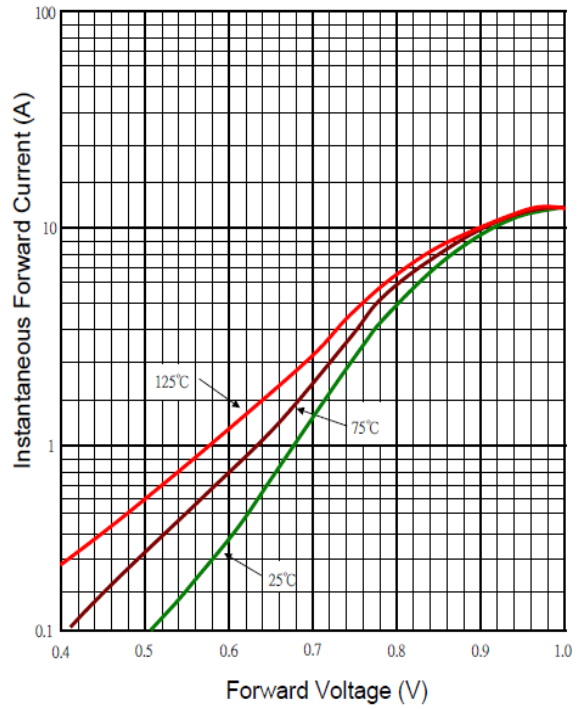
1. Measured at 1 MHz and applied reverse voltage of 4.0V D.C
2. Thermal Resistance Junction to Ambient.
3. Thermal Resistance Junction to Case.

RATINGS AND CHARACTERISTIC CURVES

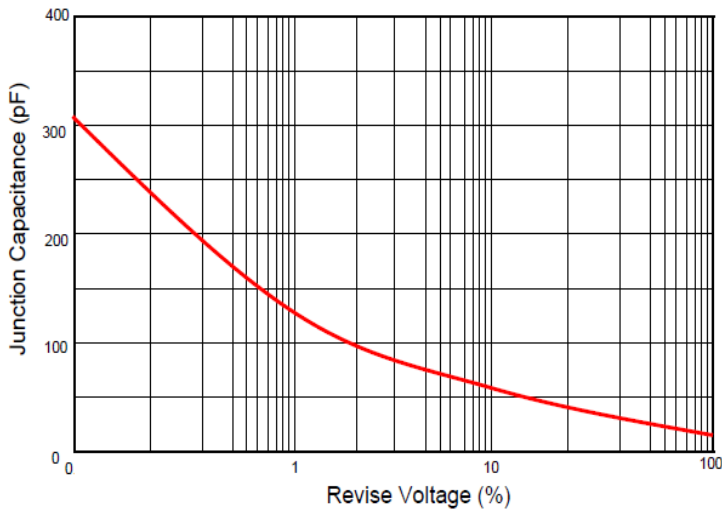
Typical Forward Current Derating Curve



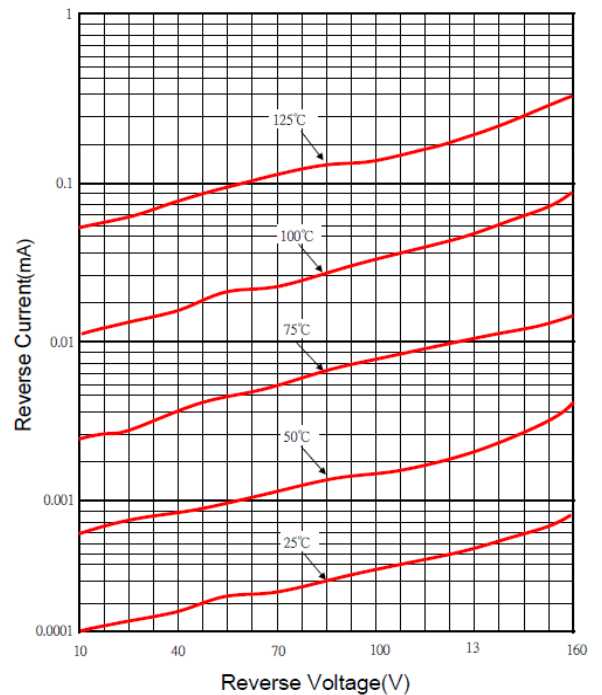
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

