

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

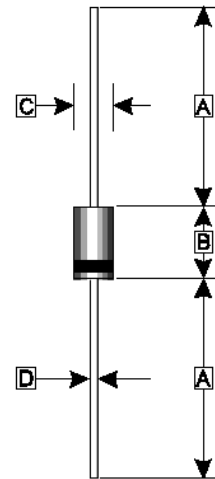
FEATURES

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

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-1 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.10 grams (Approximately)

DO-27(DO-201)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.50
C	4.80	5.60
D	1.10	1.30

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%.)

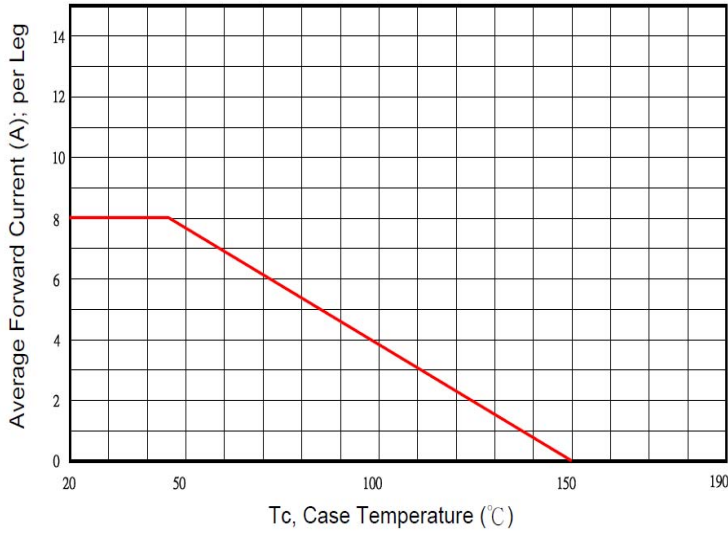
Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	V
Working Peak Reverse Voltage	V_{RWM}	150	V
Maximum DC Blocking Voltage	V_R	150	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{F(AV)}$	8	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage	V_F	$I_F=8A, T_A=25^\circ C$	0.87
		$I_F=8A, T_A=125^\circ C$	0.73
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A=25^\circ C$	0.1
		$T_A=125^\circ C$	8
Typical Junction Capacitance ¹	C_J	200	pF
Thermal Resistance (Typ.) ²	$R_{\theta JA}$	25	°C /W
Thermal Resistance (Typ.) ³	$R_{\theta JC}$	15	°C
Operating & Storage Temperature	T_J, T_{STG}	-50 ~ 150, -65 ~ 175	°C

Note:

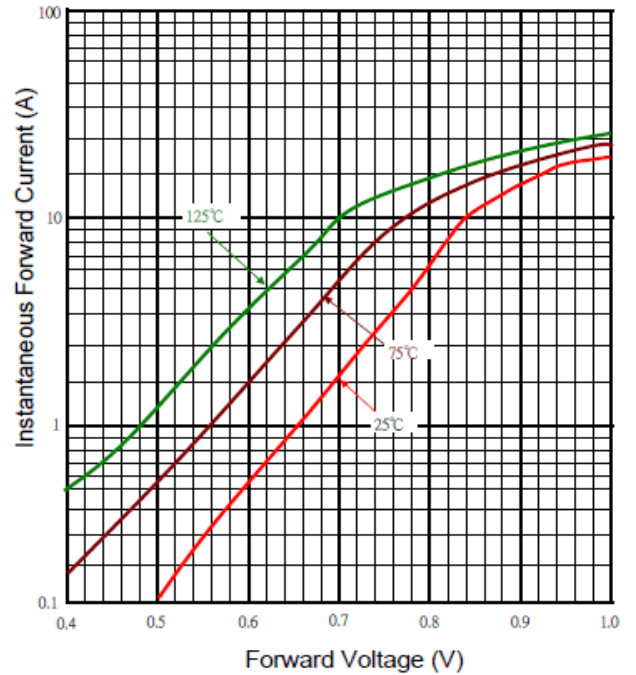
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Ambient
3. Thermal Resistance Junction to Case

RATINGS AND CHARACTERISTIC CURVES

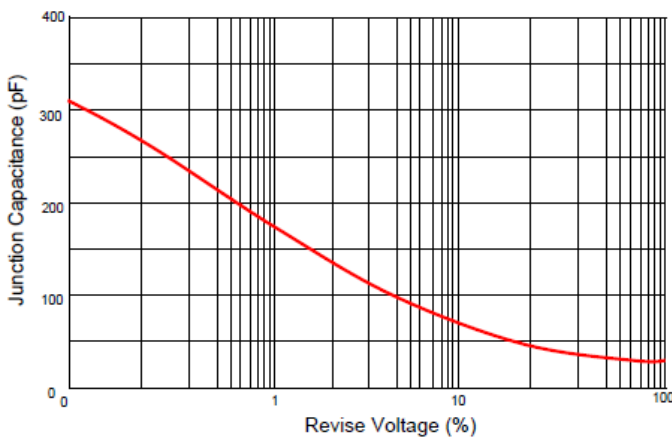
Typical Forward Current Derating Curve



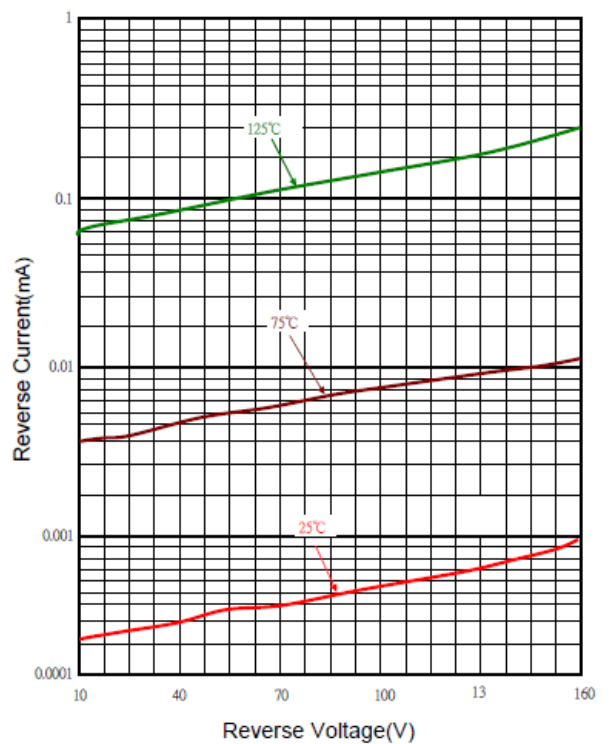
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

