

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

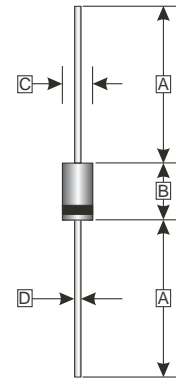
FEATURES

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

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.1 grams (Approximately)

DO-27



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%)

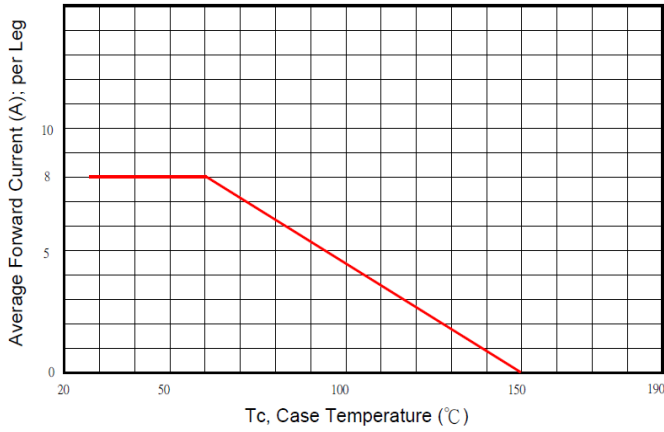
Parameter	Symbol	Rating	Unit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V	
Working Peak Reverse Voltage	V_{RSM}	200	V	
Maximum DC Blocking Voltage	V_{DC}	200	V	
Maximum Average Forward Rectified Current See Fig. 1	I_F	8	A	
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	150	A	
Maximum Instantaneous Forward Voltage @ 8A	V_F	0.9	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage ³	I_R	$T_A = 25^\circ\text{C}$	0.05	mA
		$T_A = 125^\circ\text{C}$	20	
Typical Junction Capacitance ¹	C_J	200	pF	
Typical Thermal Resistance $R_{\theta JC}$ ²	$R_{\theta JC}$	12	°C /W	
Operating Temperature Range T_J	T_J	-50~150	°C	
Storage Temperature Range T_{STG}	T_{STG}	-65~150	°C	

Notes:

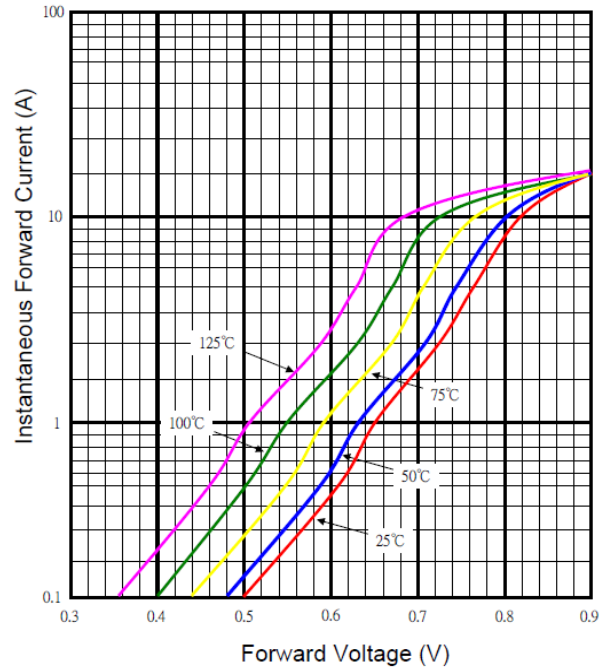
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse test: 300us pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

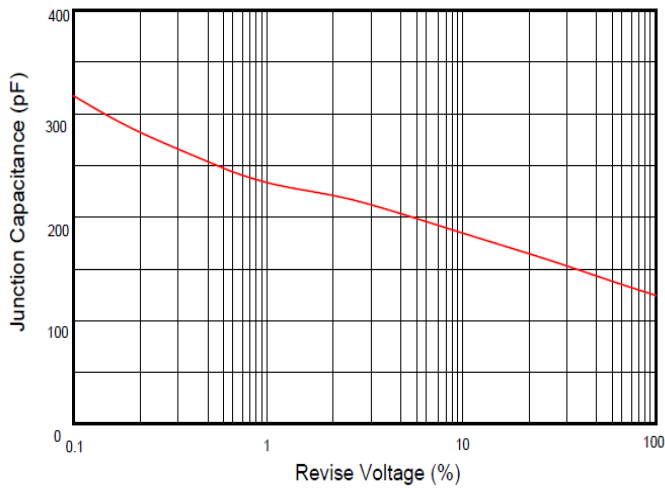
Typical Forward Current Derating Curve



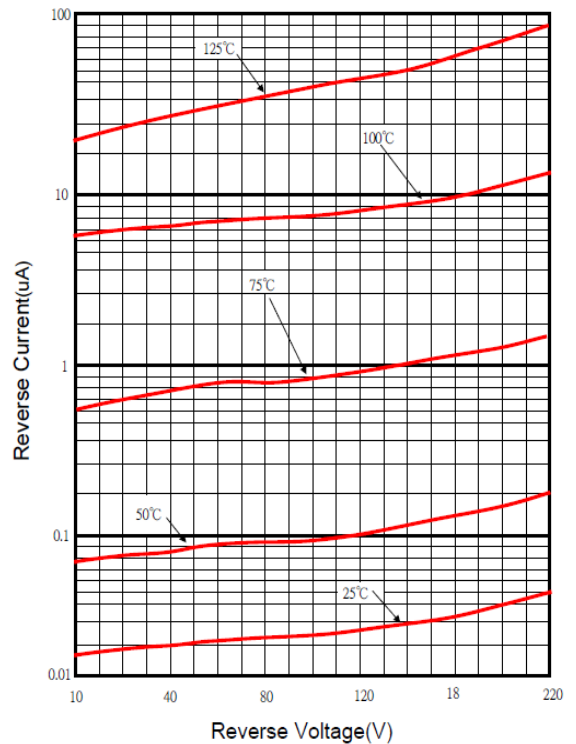
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

