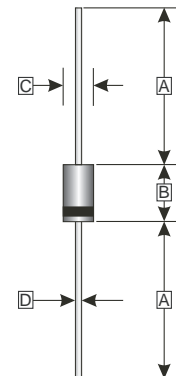


RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free



DO-15



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	5.80	7.62
C	2.60	3.60
D	-	0.90

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: 0.093 grams (Approximately)

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, derate current by 20%.

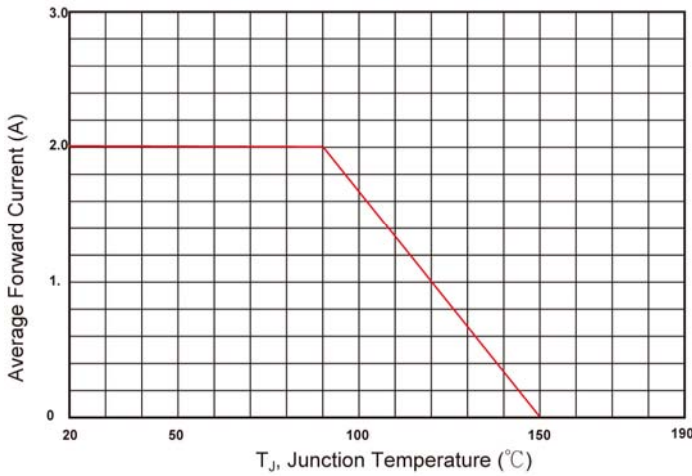
TYPE NUMBER	VALUES	UNITS	
Maximum Recurrent Peak Reverse Voltage	200	V	
Working Peak Reverse Voltage	200	V	
Maximum DC Blocking Voltage	200	V	
Maximum Average Forward Rectified Current See Fig. 1	2	A	
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	50	A	
Maximum Instantaneous Forward Voltage (IF = 2 Amps, T _A = 25°C)	0.90	V	
Maximum Instantaneous Forward Voltage (IF = 2 Amps, T _A = 125°C)	0.72		
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 3)	T _A = 25°C T _A = 125°C	0.2 8	mA
Typical Junction Capacitance (Note 1)	70	pF	
Typical Thermal Resistance R _{θJL} (Note 2)	10	°C /W	
Voltage Rate of Change (Rated VR)	10000	V/us	
Operating Temperature Range T _J	-50 ~ +150	°C	
Storage Temperature Range T _{STG}	-65 ~ +175	°C	

NOTES:

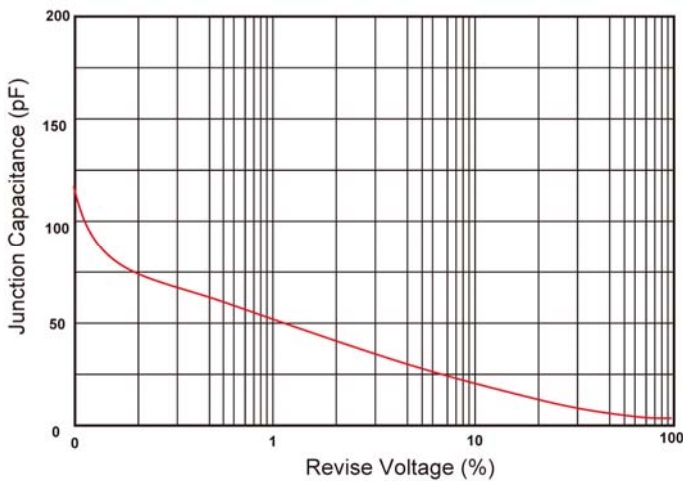
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Lead.
3. Pulse test: 300us pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

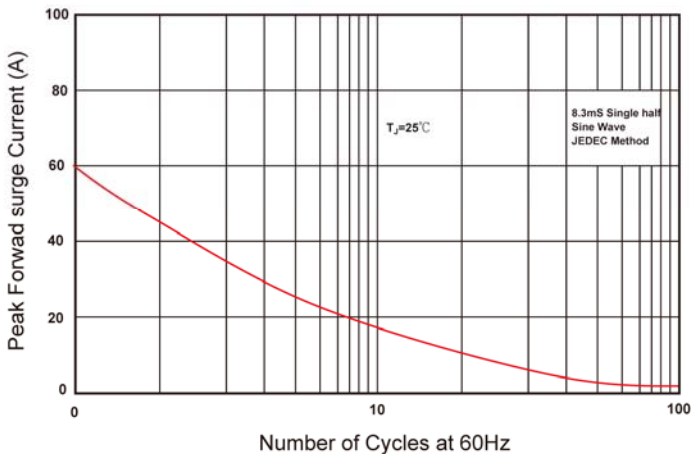
Typical Forward Current Derating Curve



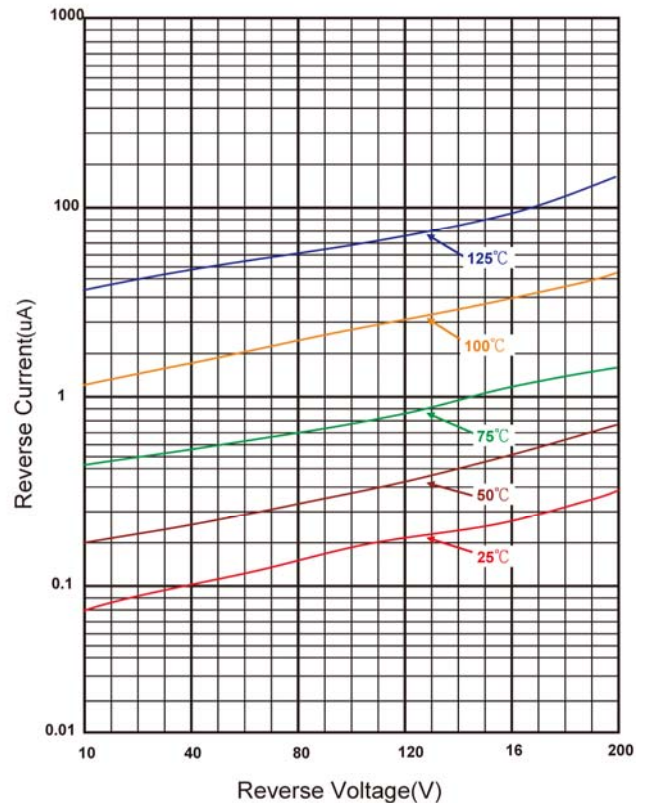
Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Forward Characteristic

