

RoHS Compliant Product

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

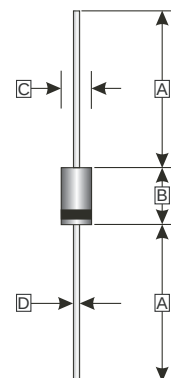
FEATURES

- 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: 0.093 grams (Approximately)

DO-15



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

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%.

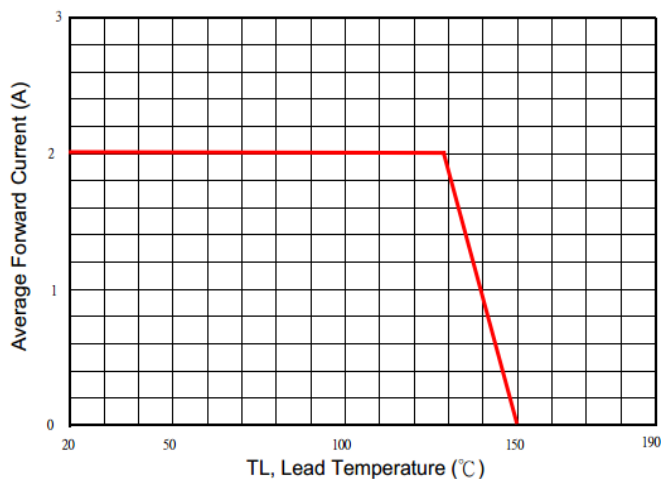
TYPE NUMBER		VALUES	UNITS
Maximum Recurrent Peak Reverse Voltage		150	V
Working Peak Reverse Voltage		150	V
Maximum DC Blocking Voltage		150	V
Maximum Average Forward Rectified Current See Fig. 1		2	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)		50	A
Maximum Instantaneous Forward Voltage	IF = 2 Amps, TA = 25°C	0.85	V
	IF = 2 Amps, TA = 125°C	0.78	
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 3)	TA = 25°C	0.2	mA
	TA = 125°C	2	
Typical Junction Capacitance (Note 1)		50	pF
Typical Thermal Resistance R _{θJL} (Note 2)		10	°C /W
Voltage Rate of Change (Rated VR)		10000	V/μs
Operating Temperature Range T _J		-50 ~ +150	°C
Storage Temperature Range T _{STG}		-65 ~ +175	°C

NOTES:

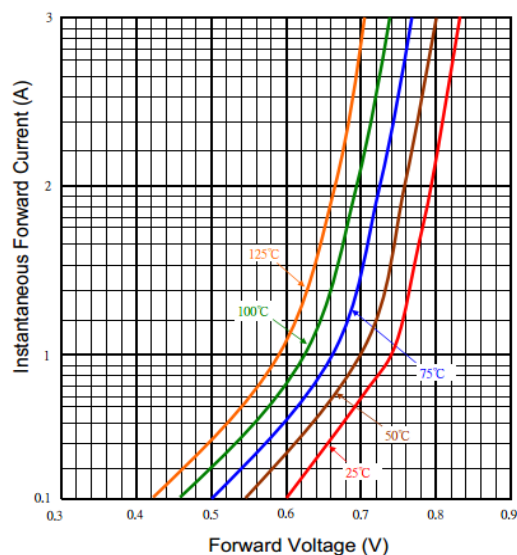
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Lead.
3. Pulse test: 300μs pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

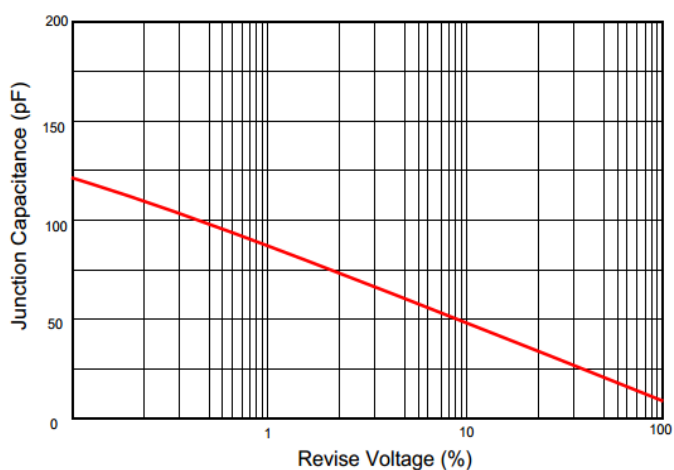
Typical Forward Current Derating Curve



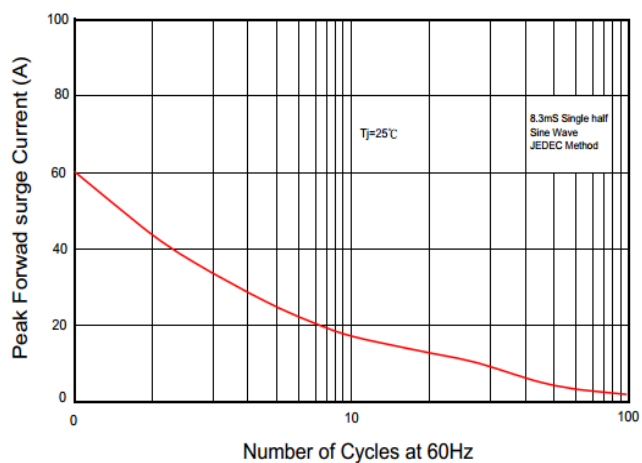
Typical Forward Characteristic



Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

