

RoHS Compliant Product

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

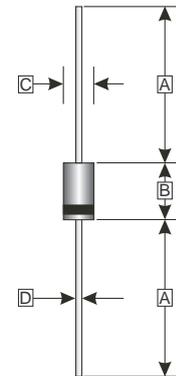
## FEATURES

- 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%.

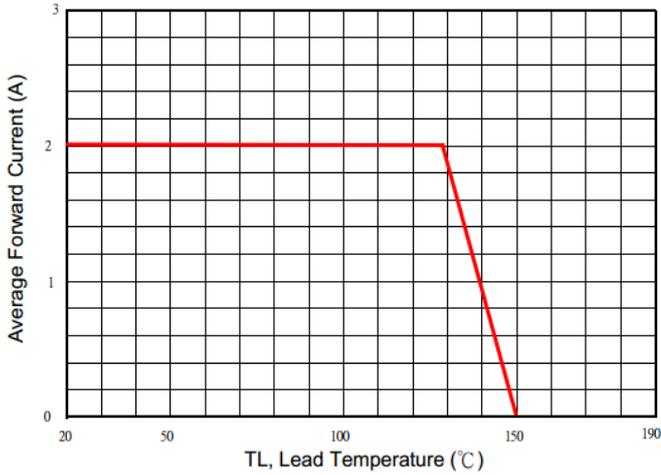
TYPE NUMBER	VALUES	UNITS
Maximum Recurrent Peak Reverse Voltage	150	V
Working Peak Reverse Voltage	150	V
Maximum DC Blocking Voltage	150	V
Maximum Average Forward Rectified Current See Fig. 1	2	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	50	A
Maximum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

### NOTES:

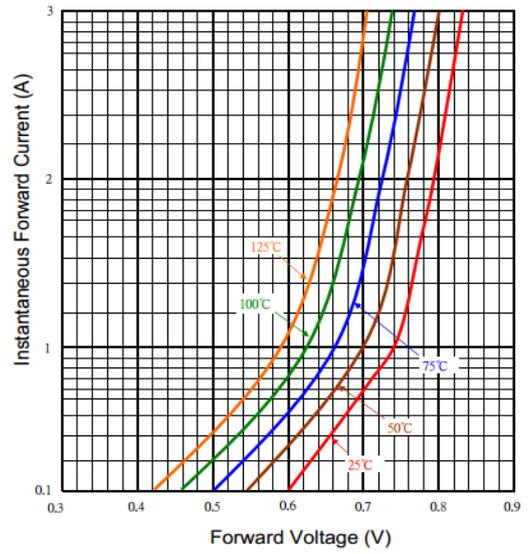
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Lead.
3. Pulse test: 300us pulse width, 1% duty cycle.

**RATINGS AND CHARACTERISTIC CURVES**

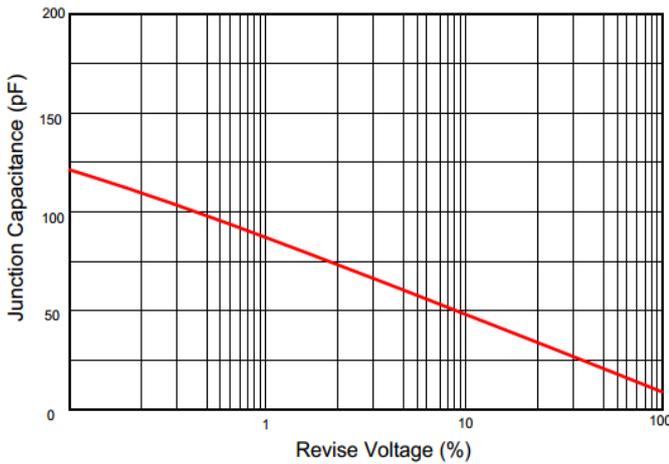
Typical Forward Current Derating Curve



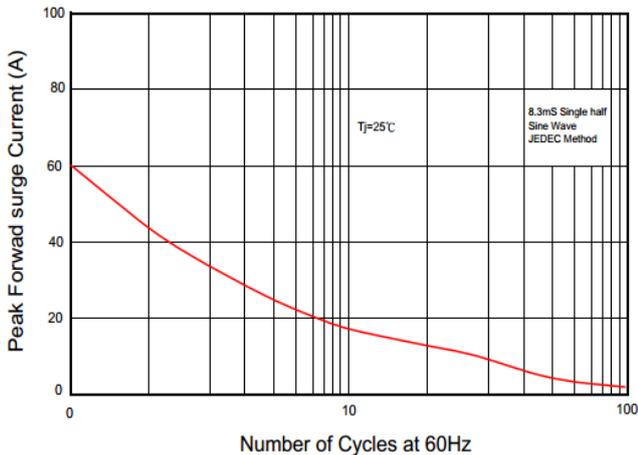
Typical Forward Characteristic



Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

