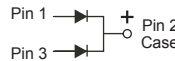
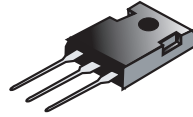


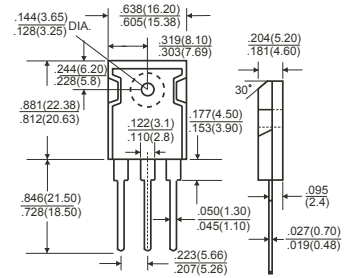
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

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



## TO-247 (TO-3P)



## 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: 6.1 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%.

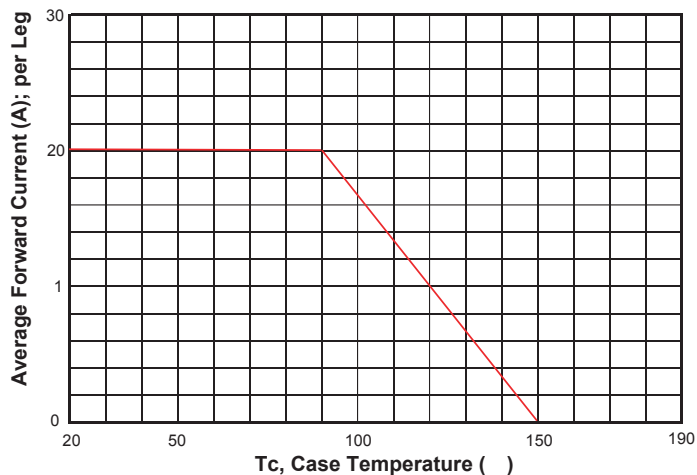
TYPE NUMBER	SYMBOL	VALUES	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	60	V
Working Peak Reverse Voltage	$V_{RSM}$	60	V
Maximum DC Blocking Voltage	$V_{DC}$	60	V
Maximum Average Forward Rectified Current, Per Leg Per Device	$I_F$	20 40	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	$I_{FSM}$	120	A
Maximum Instantaneous Forward Voltage @ $I_F=20$ A	$V_F$	0.70	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	$I_R$	0.5 80	mA
Typical Junction Capacitance (Note 1)	$C_J$	550	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	3.0	$^\circ\text{C} / \text{W}$
Operating Temperature Range	$T_J$	-50 ~ +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 ~ +175	$^\circ\text{C}$

**NOTES:**

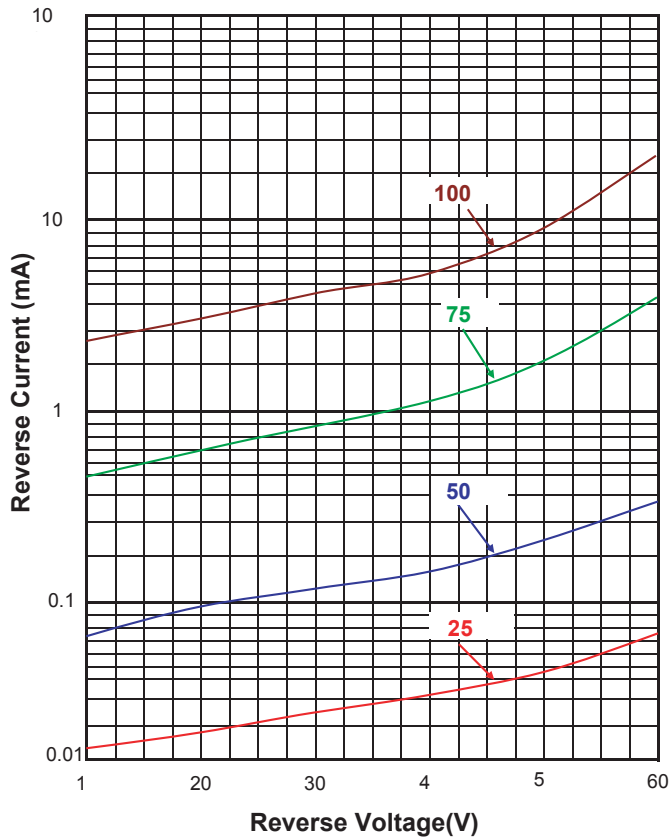
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5" (12.7mm) Lead Length.

**RATINGS AND CHARACTERISTIC CURVES**

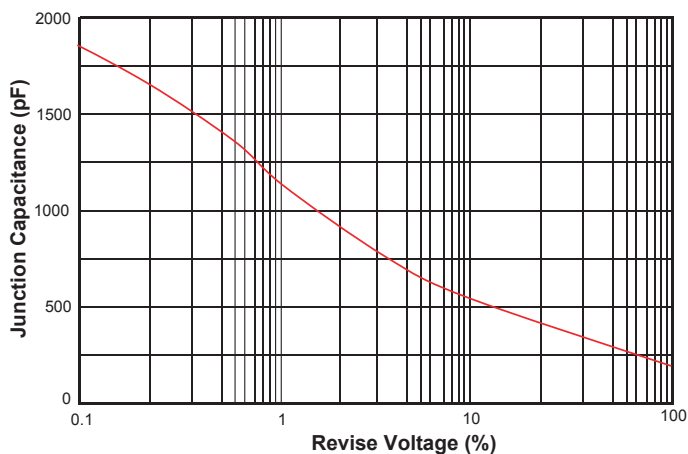
**Typical Forward Current Derating Curve**



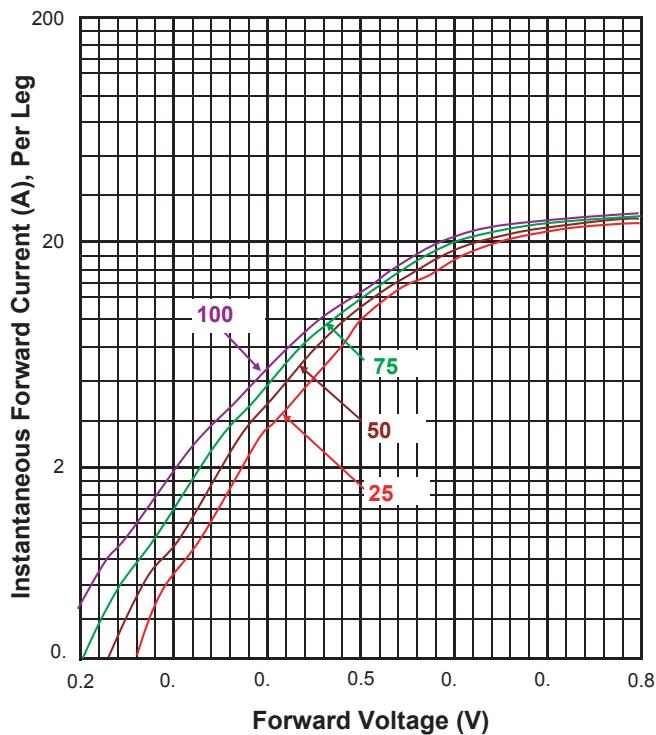
**Typical Reverse Characteristic**



**Typical Junction Capacitance**



**Typical Forward Characteristic**



**Maximum Non- Repetitive Forward Surge**

