

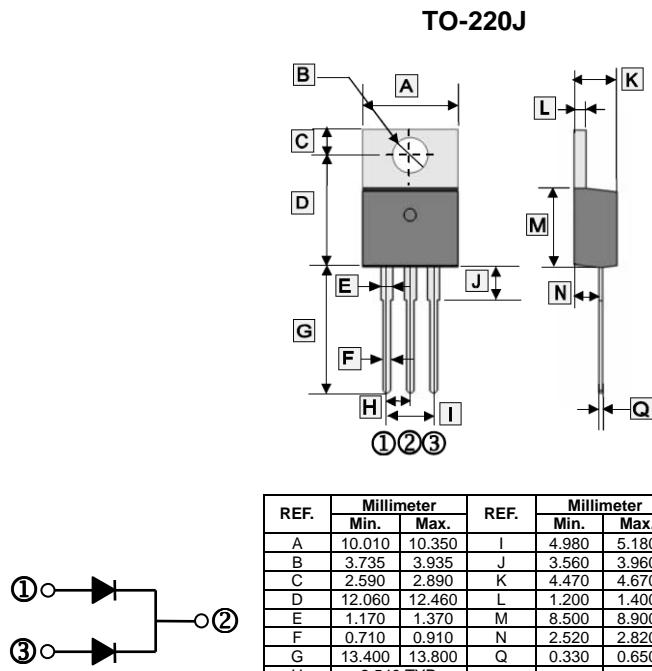
RoHS Compliant Product  
A suffix of "C" specifies halogen free

## 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: 1.98 grams (approximate)



## 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 <sub>RRM</sub>	100	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	100	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	V
Maximum Average Forward Rectified Current	I <sub>F</sub>	15	A
(Per Leg) (Per Device)		30	
Peak Forward Surge Current, 8.3 ms single half sine-wave	I <sub>FSM</sub>	350	A
Power dissipation	P <sub>D</sub>	2	W
Typical Thermal Resistance	R <sub>θJC</sub>	2	°C /W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	150, -55~150	°C

## ELECTRICAL CHARACTERISTICS

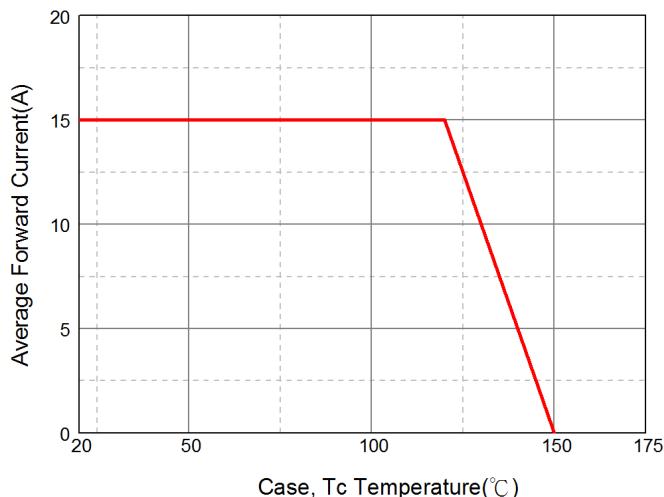
Parameter	Symbol	MIN.	Typ.	Max.	Unit	Test Condition
Reverse voltage	V <sub>BR</sub>	100	-	-	V	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	-	0.81	0.86	V	I <sub>F</sub> =15A, T <sub>J</sub> =25°C
		-	0.72	-		I <sub>F</sub> =15A, T <sub>J</sub> =100°C
Maximum DC Reverse Current at Rated DC Blocking Voltage <sup>2</sup>	I <sub>R</sub>	-	-	0.1	mA	V <sub>R</sub> =100V, T <sub>J</sub> =25°C
		-	-	10		V <sub>R</sub> =100V, T <sub>J</sub> =100°C
Typical Junction Capacitance <sup>1</sup>	C <sub>J</sub>	-	90	-	pF	

### NOTES:

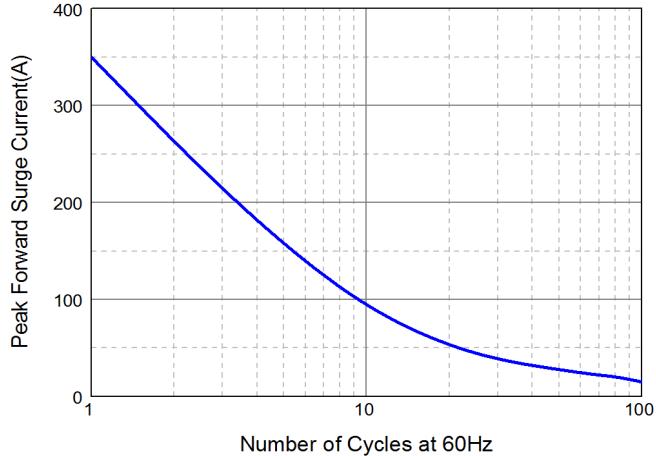
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Pulse Test : Pulse Width = 300 µs, Duty Cycle  $\leq$  2.0%.

## RATINGS AND CHARACTERISTIC CURVES

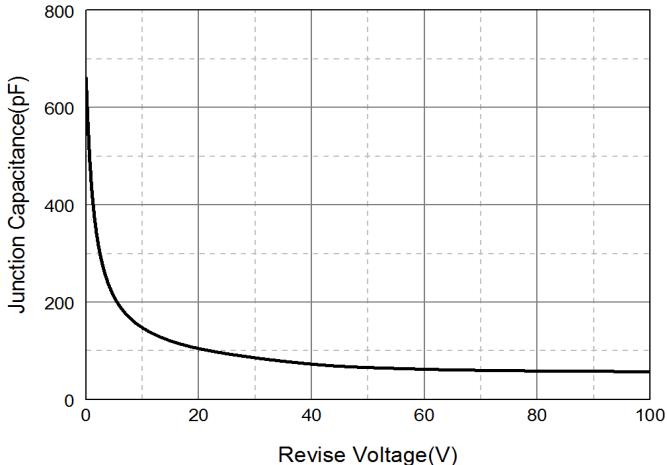
Typical Forward Current Derating Curve



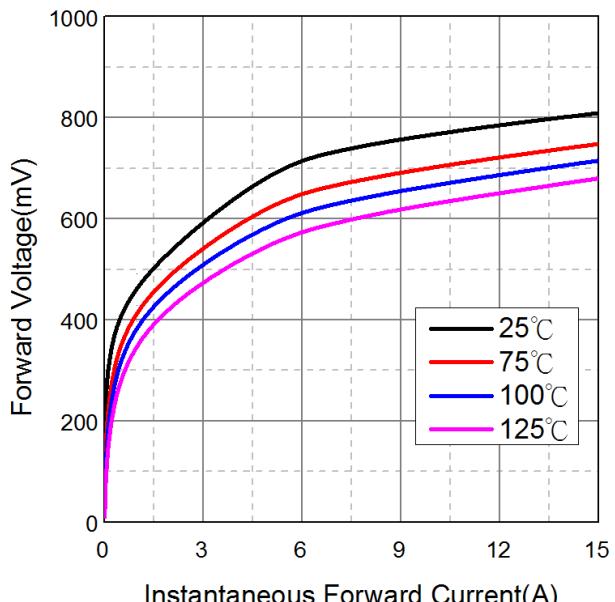
Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance



Typical Forward Characteristic



Typical Reverse Characteristic

