

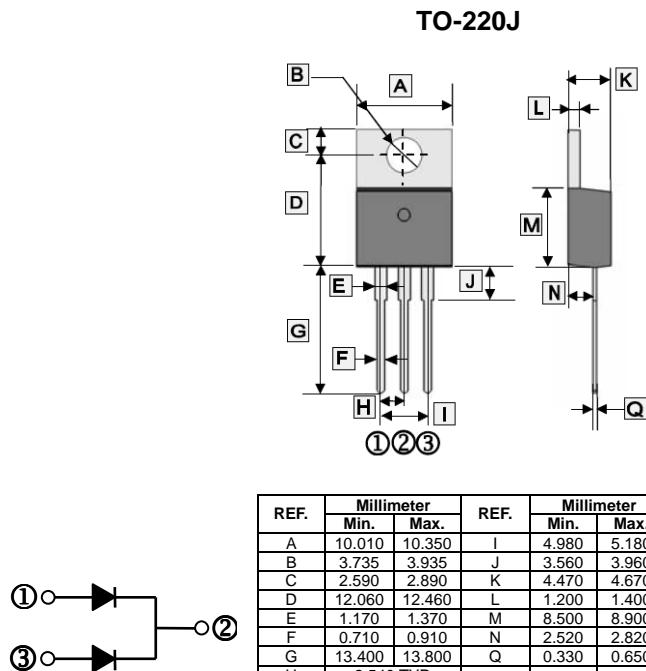
RoHS Compliant Product
A suffix of "C" specifies halogen free

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



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 _{RRM}	150		V
Working Peak Reverse Voltage	V _{RWM}	150		V
Maximum DC Blocking Voltage	V _{DC}	150		V
Maximum Average Forward Rectified Current (Per Leg)	I _F	10		A
		20		
Peak Forward Surge Current, 8.3 ms single half sine-wave	I _{FSM}	180		A
Power dissipation	P _D	2		W
Typical Thermal Resistance	R _{θJA}	50		°C /W
Typical Thermal Resistance	R _{θJC}	2		°C /W
Operating and Storage Temperature Range	T _J , T _{STG}	150, -55~150		°C

ELECTRICAL CHARACTERISTICS

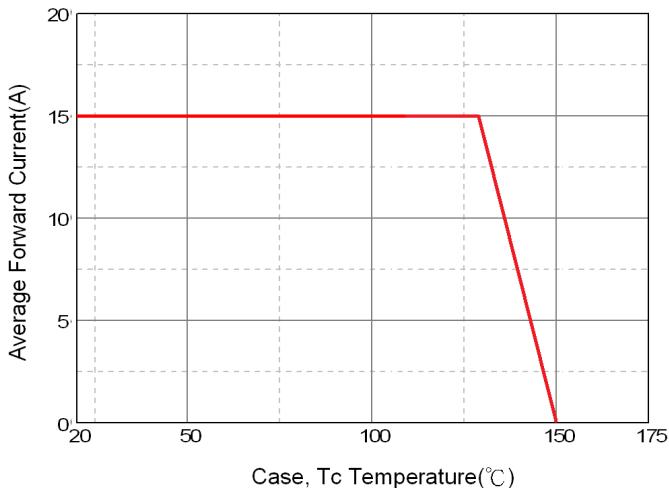
Parameter	Symbol	MIN.	Typ.	Max.	Unit	Test Condition
Reverse voltage	V _{BR}	150	-	-	V	
Maximum Instantaneous Forward Voltage	V _F	-	0.83	0.89	V	I _F =10A, T _J =25°C
		-	0.73	-		I _F =10A, T _J =100°C
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	I _R	-	-	0.5	mA	V _R =150V, T _J =25°C
		-	-	2		V _R =150V, T _J =100°C
Typical Junction Capacitance ¹	C _J	-	90	-	pF	

NOTES:

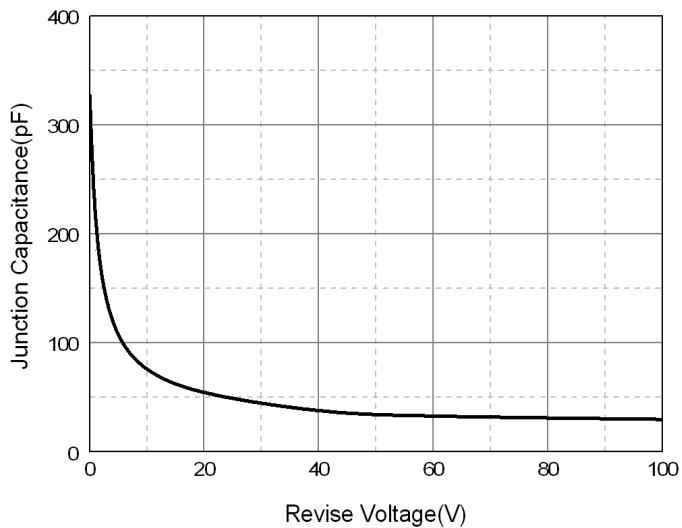
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Pulse Test : Pulse Width = 300 µs, Duty Cycle \leq 2.0%.

RATINGS AND CHARACTERISTIC CURVES

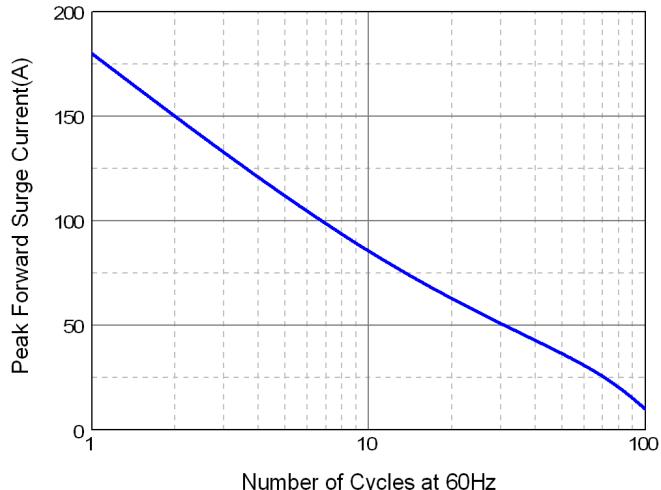
Typical Forward Current Derating Curve



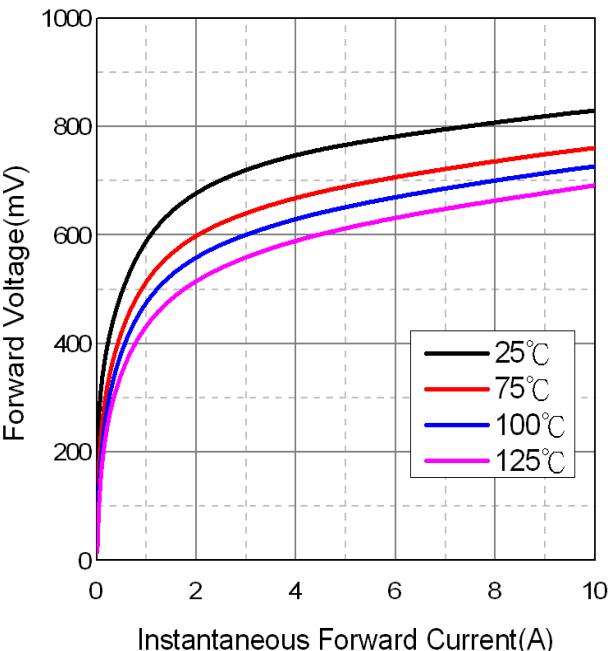
Typical Junction Capacitance



Maximum Non-Repetitive Forward Surge Current



Typical Forward Characteristic



Typical Reverse Characteristic

