

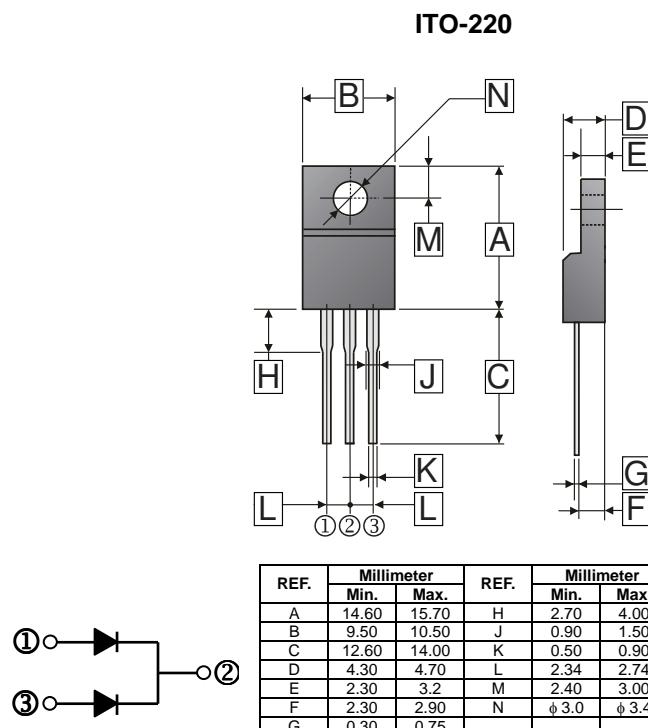
RoHS Compliant Product  
A suffix of "C" specifies halogen free

## FEATURES

- Trench Barrier Schottky technology
- Low forward voltage drop
- Low reverse current
- 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 g (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>	80	V
Working Peak Reverse Voltage	V <sub>RSM</sub>	80	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	80	V
Maximum Average Forward Rectified Current (Per Leg)	I <sub>F</sub>	10	A
(Per Device)		20	
Peak Forward Surge Current, 8.3 ms single half sine-wave	I <sub>FSM</sub>	150	A
Voltage Rate of Change (Rated V <sub>R</sub> )	dv/dt	10000	V / μs
Typical Thermal Resistance	R <sub>θJC</sub>	4	°C / W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-40~150	°C

## ELECTRICAL CHARACTERISTICS

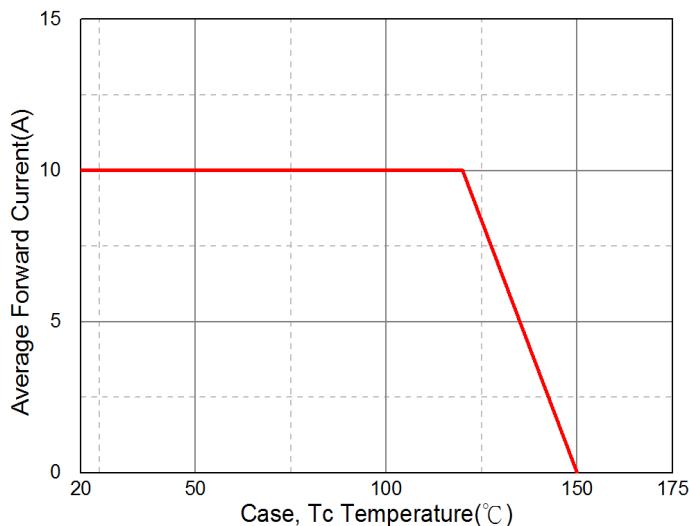
Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.45	0.48	V	I <sub>F</sub> = 3A, T <sub>J</sub> = 25°C
		0.49	0.55		I <sub>F</sub> = 5A, T <sub>J</sub> = 25°C
		0.60	0.65		I <sub>F</sub> = 10A, T <sub>J</sub> = 25°C
		0.56	-		I <sub>F</sub> = 10 A, T <sub>J</sub> = 100°C
Maximum DC Reverse Current at Rated DC Blocking Voltage <sup>2</sup>	I <sub>R</sub>	-	0.2	mA	T <sub>J</sub> =25°C
		-	20		T <sub>J</sub> =100°C
Typical Junction Capacitance <sup>1</sup>	C <sub>J</sub>	750	-	pF	

### NOTES:

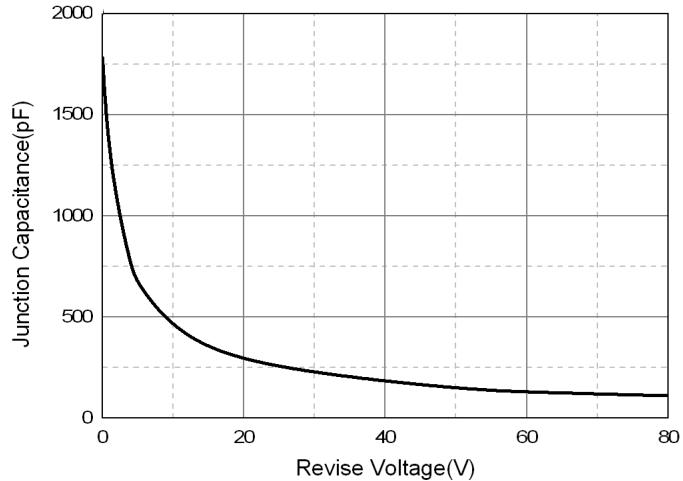
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Pulse Test : Pulse Width = 300 μs, Duty Cycle ≤ 2.0%.

## RATINGS AND CHARACTERISTIC CURVES

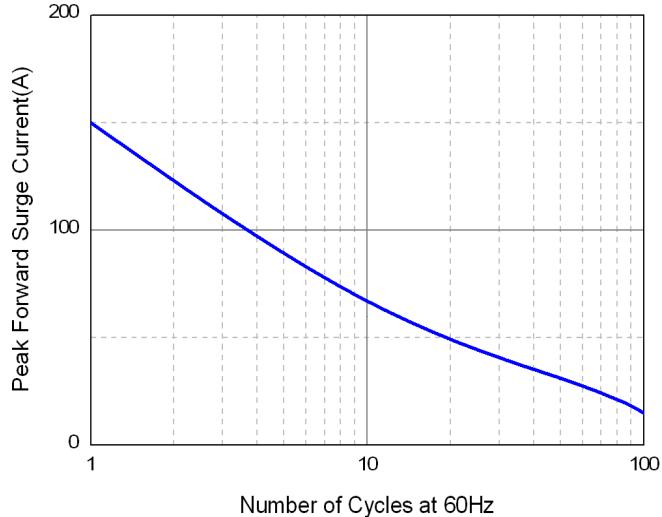
Typical Forward Current Derating Curve



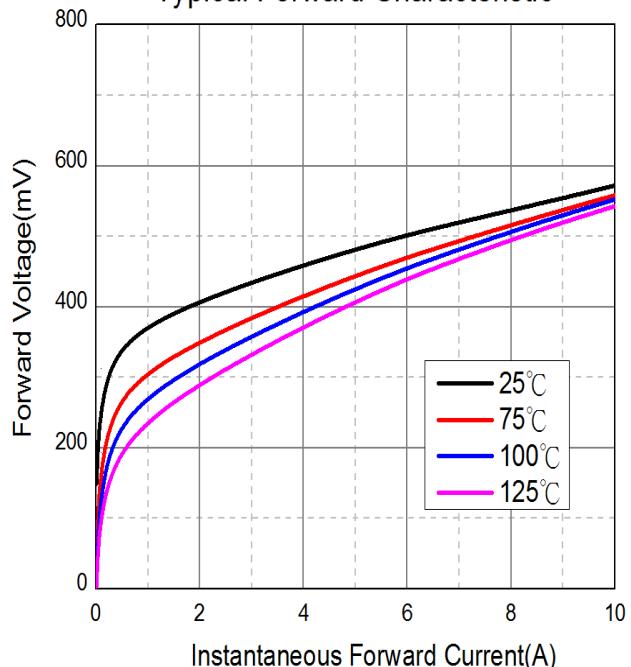
Typical Junction Capacitance



Maximum Non-Repetitive Forward Surge Current



Typical Forward Characteristic



Typical Reverse Characteristic

