

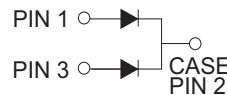
RoHS Compliant Product  
A suffix of "-C" specifies halogen free

## FEATURES

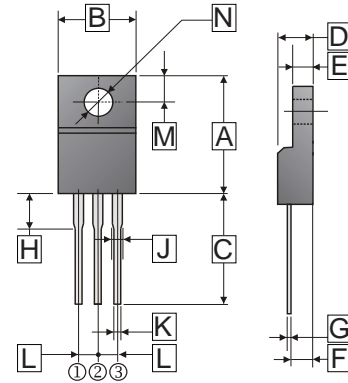
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

## 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)



### ITO-220



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.60	15.70	H	2.70	3.80
B	9.50	10.50	J	0.90	1.50
C	12.60	14.00	K	0.50	0.90
D	4.30	4.70	L	2.34	2.74
E	2.30	3.2	M	2.40	3.00
F	2.30	2.80	N	∅ 3.0	∅ 3.4
G	0.30	0.70			

## 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%.)

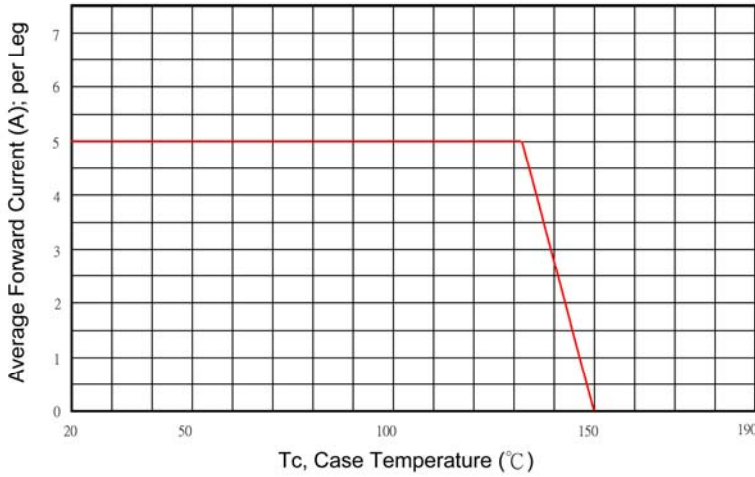
Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RSM}$	100	V
Maximum DC Blocking Voltage	$V_{DC}$	100	V
Maximum Average Forward Rectified Current	Per Leg	5	A
	Per Device	10	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	130	A
Maximum Instantaneous Forward Voltage	$I_F=5A, T_A=25^\circ C, \text{ per leg}$	0.82	V
	$I_F=5A, T_A=125^\circ C, \text{ per leg}$	0.70	
Maximum DC Reverse Current at Rated DC Blocking Voltage <sup>3</sup>	$T_A=25^\circ C$	0.05	mA
	$T_A=100^\circ C$	10	
Typical Junction Capacitance <sup>1</sup>	$C_J$	350	pF
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JC}$	4.0	°C / W
Voltage Rate of Change	$dv / dt$	10000	V / $\mu s$
Operating Temperature Range $T_J$	$T_J$	-50~150	°C
Storage Temperature Range $T_{STG}$	$T_{STG}$	-65~175	°C

Note:

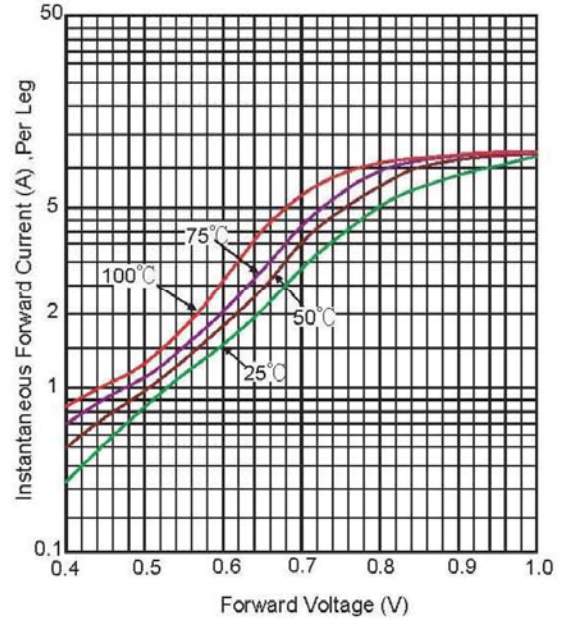
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test : Pulse Width = 300  $\mu s$ , Duty Cycle  $\leq$  2.0%.

**RATINGS AND CHARACTERISTIC CURVES**

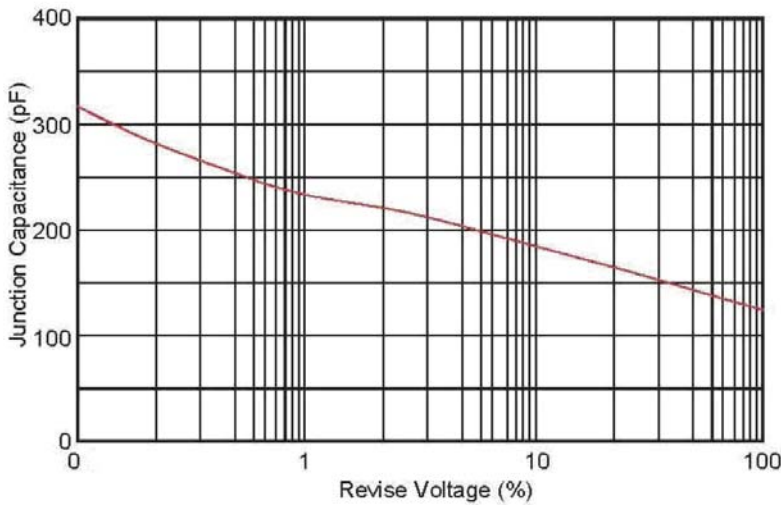
Typical Forward Current Derating Curve



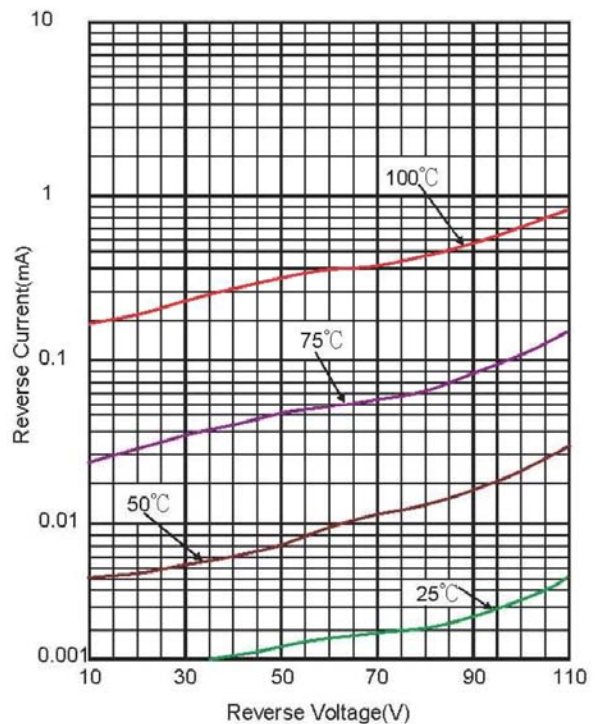
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

