

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

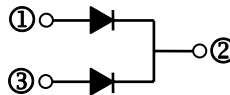
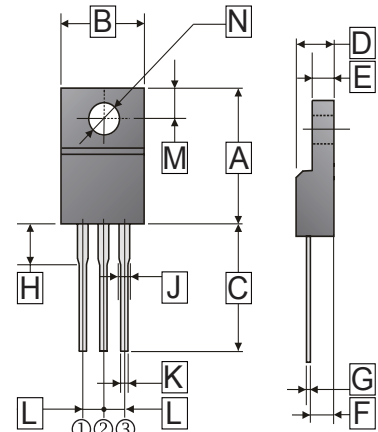
FEATURES

- 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)

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	φ 3.0	φ 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%.)

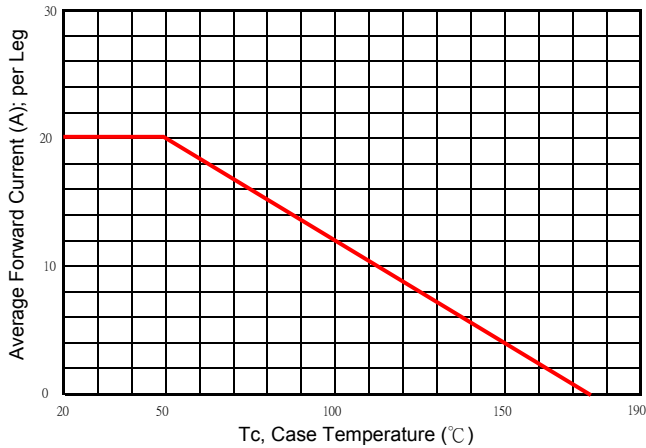
Parameter		Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	100	V
Working Peak Reverse Voltage		V_{RSM}	100	V
Maximum DC Blocking Voltage		V_{DC}	100	V
Maximum Average Forward Rectified Current	(Per Leg)	I_F	20	A
	(Per Device)		40	
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)		I_{FSM}	300	A
Maximum Instantaneous Forward Voltage	($I_F = 20$ A, $T_J = 25^\circ\text{C}$, per leg)	V_F	0.82	V
	($I_F = 20$ A, $T_J = 125^\circ\text{C}$, per leg)		0.69	
Maximum DC Reverse Current at Rated DC Blocking Voltage ³	$T_J = 25^\circ\text{C}$	I_R	0.1	mA
	$T_J = 100^\circ\text{C}$		2	
Typical Junction Capacitance ¹		C_J	520	pF
Typical Thermal Resistance ²		$R_{\theta JC}$	8.0	$^\circ\text{C}/\text{W}$
Voltage Rate of Change (Rated V_R)		dv/dt	10000	V / μs
Operating Temperature Range		T_J	-50 ~ 175	$^\circ\text{C}$
Storage Temperature Range		T_{STG}	-50 ~ 150	$^\circ\text{C}$

NOTES:

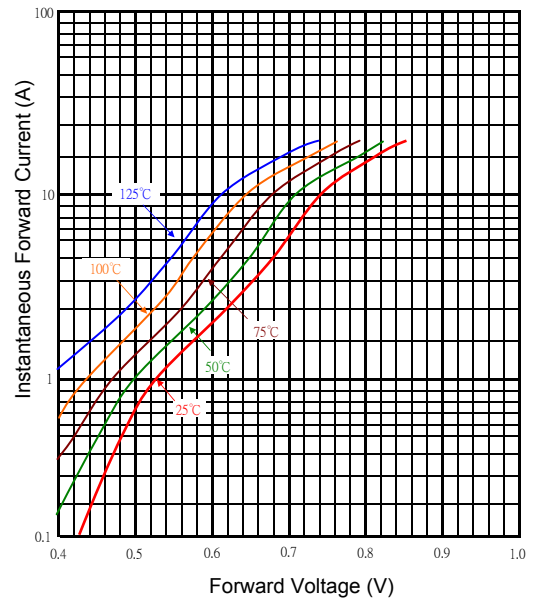
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test : Pulse Width = 300 μs , Duty Cycle $\leq 2.0\%$.

RATINGS AND CHARACTERISTIC CURVES

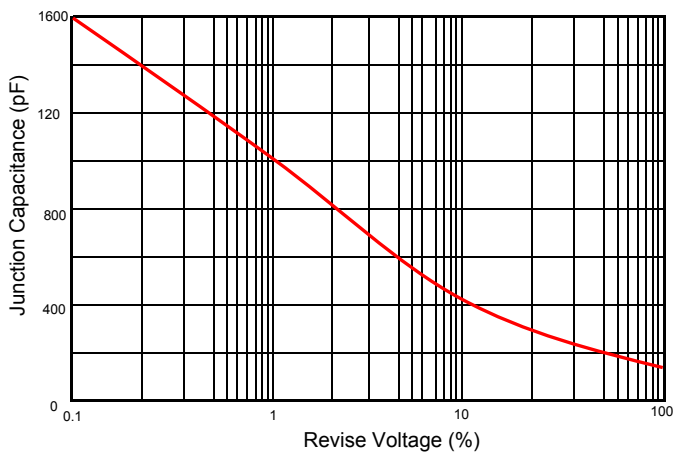
Typical Forward Current Derating Curve



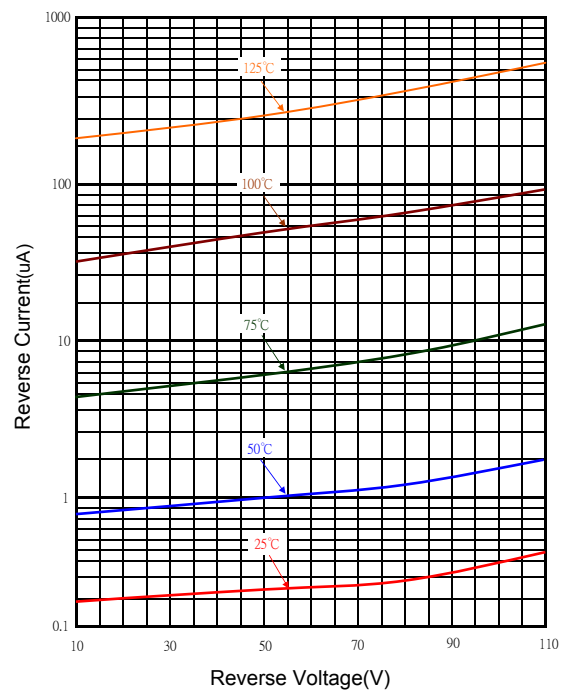
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

