

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

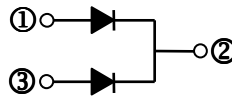
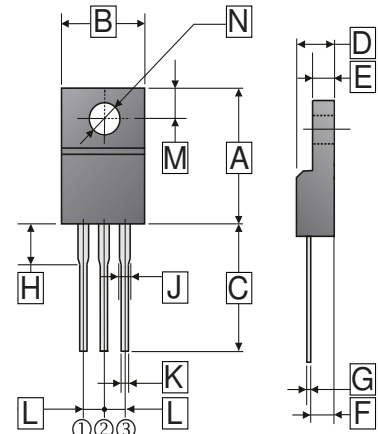
FEATURES

- Superlow 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}	60	V
Working Peak Reverse Voltage		V_{RSM}	60	V
Maximum DC Blocking Voltage		V_{DC}	60	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}	320	A
Maximum Instantaneous Forward Voltage	($I_F=20A, T_J=25^\circ C$, per leg)	V_F	0.7	V
	($I_F=20A, T_J=125^\circ C$, per leg)		0.62	
Maximum DC Reverse Current at Rated DC Blocking Voltage ³	$T_J=25^\circ C$	I_R	0.5	mA
	$T_J=125^\circ C$		100	
Typical Junction Capacitance ¹		C_J	811	pF
Typical Thermal Resistance ²		$R_{\theta JC}$	4	°C/W
Voltage Rate of Change (Rated V_R)		dv/dt	10000	V / μs
Operating Temperature Range		T_J	125	°C
Storage Temperature Range		T_{STG}	-50 ~ 150	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test : Pulse Width = 300 μs , Duty Cycle \leq 2.0%.

RATINGS AND CHARACTERISTIC CURVES

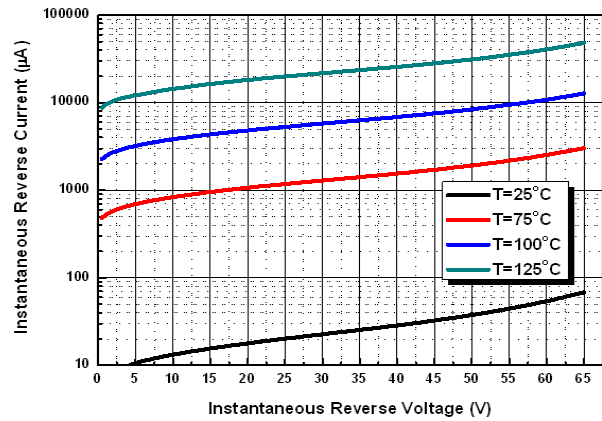
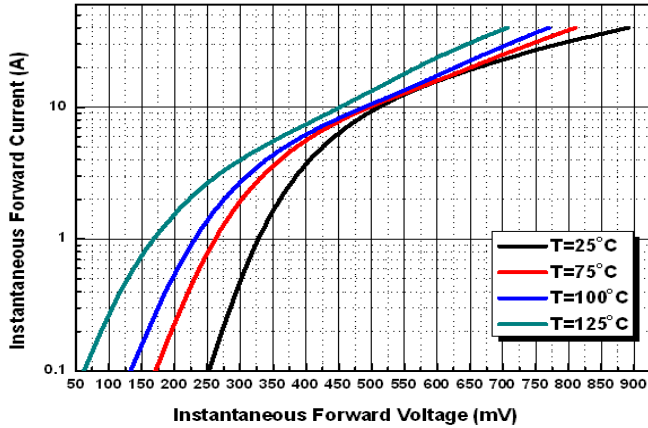


Figure 1. Typical Forward Characteristics per Diode

Figure 2. Typical Reverse Characteristics per Diode

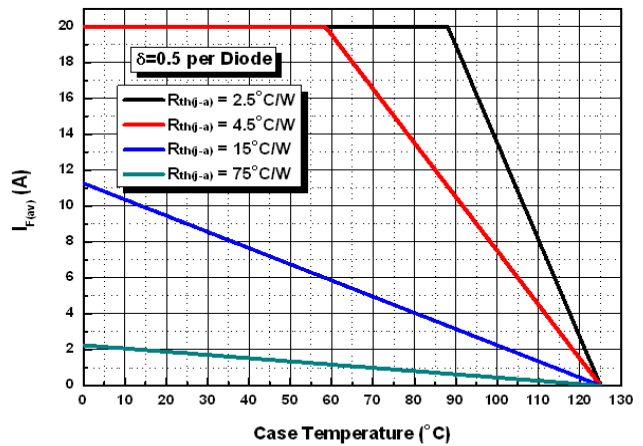
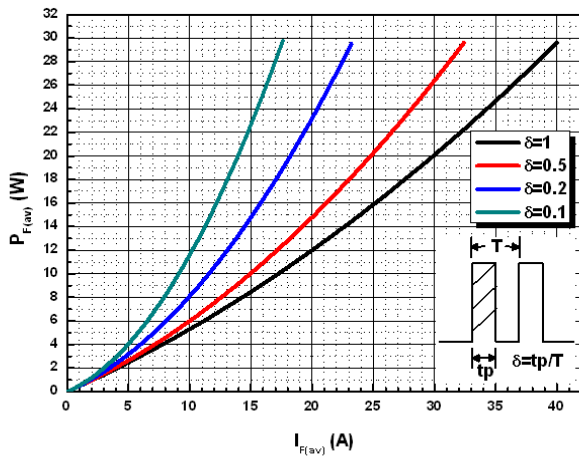


Figure 3. Average Forward Power Dissipation per Diode

Figure 4. Current Derating Curves

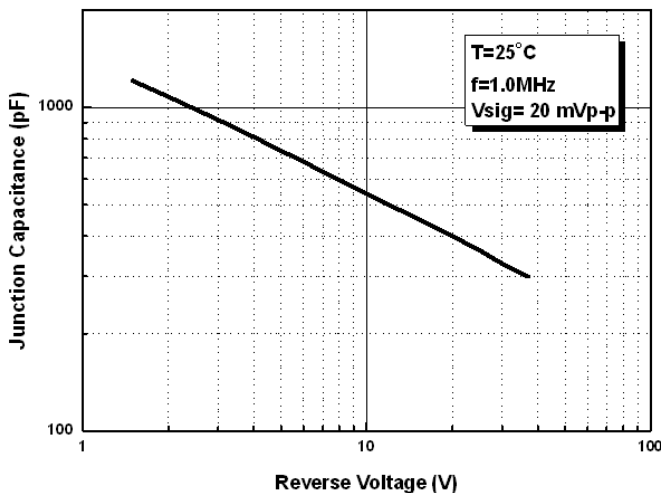


Figure 5. Typical Junction Capacitance per Diode