

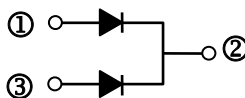
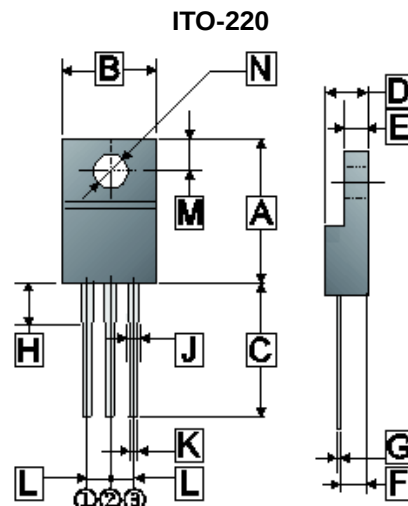
RoHS Compliant Product
A suffix of "-C" specifies halogen free

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



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.50	16.50	H	2.70	4.35
B	9.50	10.72	J	0.90	1.70
C	12.60	14.22	K	0.30	0.95
D	4.20	5.10	L	2.34	2.75
E	2.30	3.30	M	2.40	3.60
F	2.30	3.10	N	φ 3.0	φ 3.8
G	0.30	0.75			

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%.)

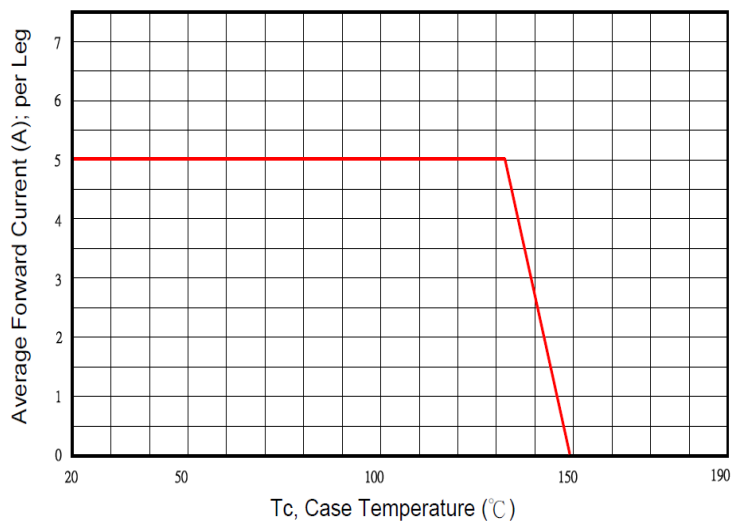
Parameter		Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	60	V
Working Peak Reverse Voltage		V_{RSM}	60	V
Maximum DC Blocking Voltage		V_{DC}	60	V
Maximum Average Forward Rectified Current	Per Leg	I_F	5	A
	Per Device		10	
Peak Forward Surge Current@ 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	130	A
Maximum Instantaneous Forward Voltage	$I_F=5A, T_A=25^{\circ}C, \text{ per leg}$	V_F	0.65	V
	$I_F=5A, T_A=125^{\circ}C, \text{ per leg}$		0.55	
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	$T_A = 25^{\circ}C$	I_R	0.2	mA
	$T_A = 125^{\circ}C$		10	
Typical Junction Capacitance ¹		C_J	350	pF
Typical Thermal Resistance from Junction to Case		$R_{\theta JC}$	4	°C / W
Voltage Rate Of Change (Rated V_R)		dv / dt	10000	V / μs
Operating Junction and Storage Temperature Range		T_J, T_{STG}	150, -65~150	°C

Notes:

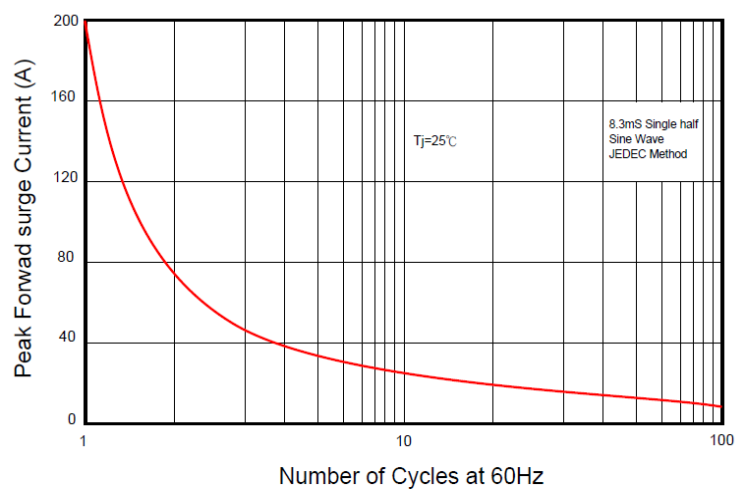
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Pulse test: 300 μs pulse width, 2% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

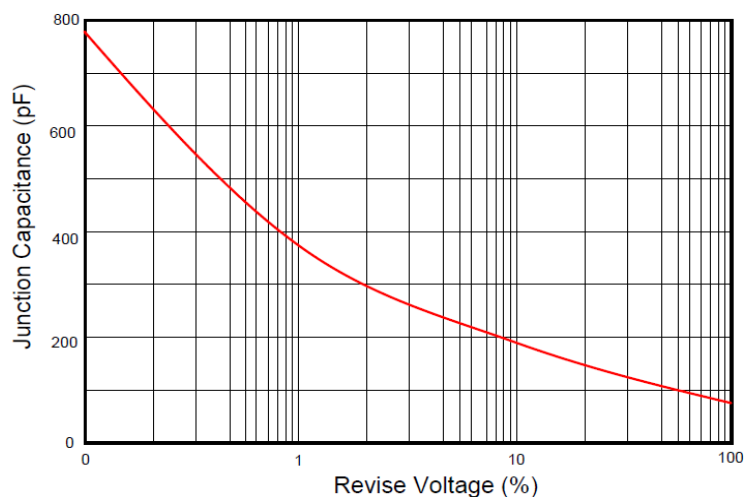
Typical Forward Current Derating Curve



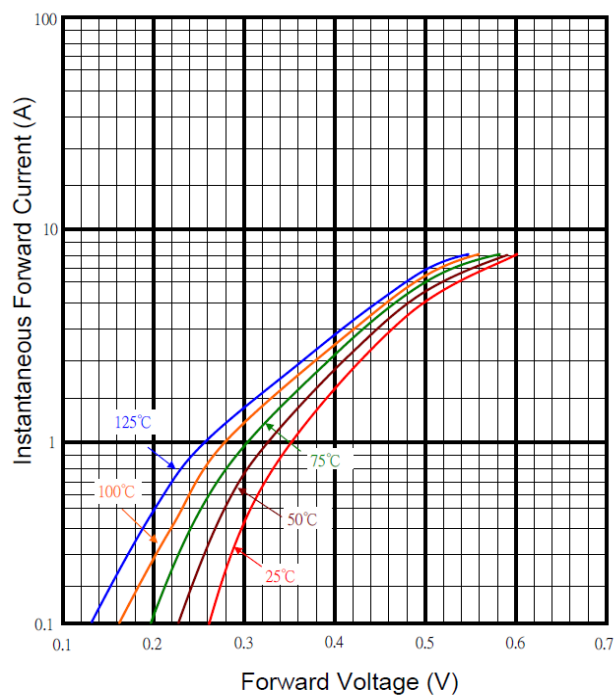
Maximum Non- Repetitive Forward Surge Current



Typical Junction Capacitance



Typical Forward Characteristic



Typical Reverse Characteristic

