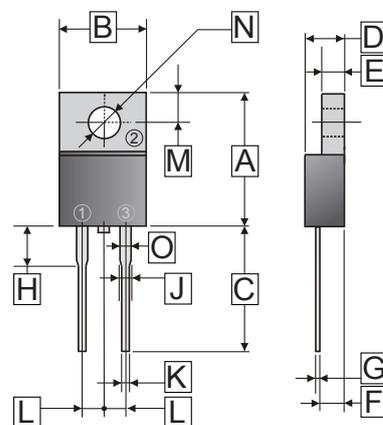


RoHS Compliant Product
A suffix of "-C" specifies halogen free

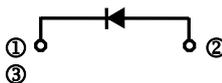
FEATURES

- High Surge Capacity
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- High-Switching Speed 60 Nanosecond Recovery Time
- Low Forward Voltage, High Current Capability
- Low Stored Charge Majority Carrier Conduction
- Plastic Material Used Carries Underwriters Laboratory Flammability Classification 94V-0

TO-220A



Dimensions in millimeters



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.68	15.50	H	3.57	4.03
B	9.7	10.4	J	-	1.30
C	13.06	14.62	K	0.72	0.96
D	4.22	4.98	L	4.84	5.32
E	1.14	1.38	M	2.48	2.98
F	2.20	2.98	N	φ 3.7	φ 3.9
G	0.27	0.55	O	1.12	1.37

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

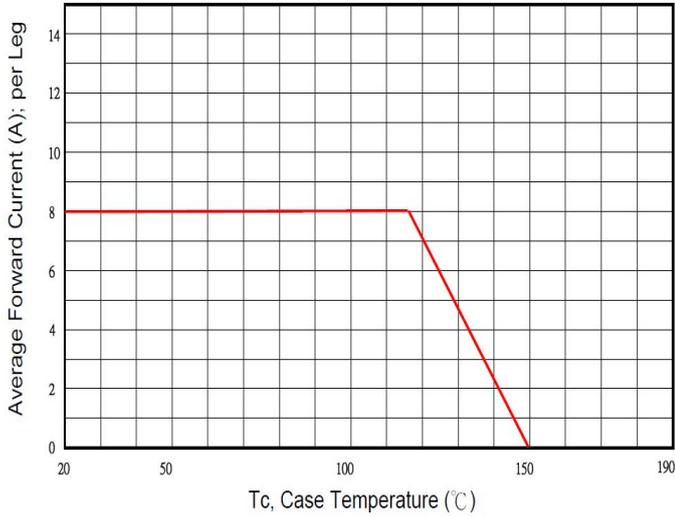
Parameter	Symbol	Ratings	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	480	V
Average Rectifier Forward Current	$I_{F(AV)}$	8	A
Non-Repetitive Peak Surge Current ¹	I_{FSM}	120	A
Maximum Instantaneous Forward Voltage ($I_F = 8\text{ A}, T_C = 25^\circ\text{C}$)	V_F	1.6	V
Maximum Instantaneous Reverse Current	I_R	$T_C = 25^\circ\text{C}$	5
		$T_C = 100^\circ\text{C}$	500
Reverse Recovery Time ²	T_{RR}	50	nS
Typical Junction Capacitance ³	C_P	70	pF
Thermal Resistance	$R_{\theta JC}$	2.5	$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65~+150	$^\circ\text{C}$

Note:

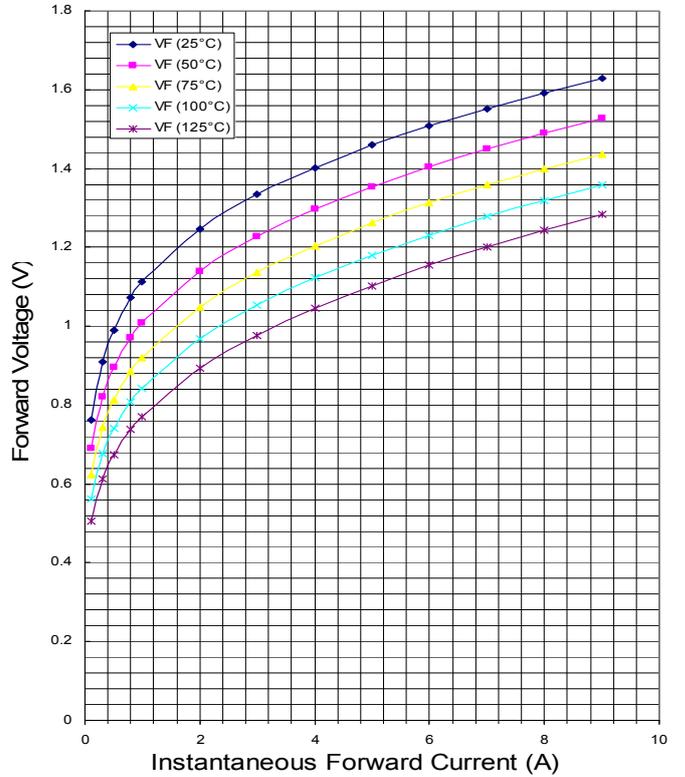
1. Surge applied at rate load conditions half-wave, single phase, 60Hz.
2. $I_F = 0.5\text{A}, V_R = 30\text{V}, dI_F / dt = 100\text{ A} / \mu\text{s}$.
3. Reverse Voltage of 4V, $f = 1\text{MHz}$.

RATINGS AND CHARACTERISTIC CURVES

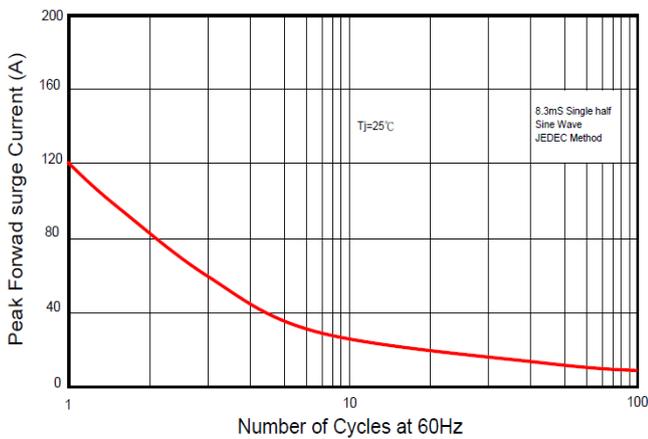
Typical Forward Current Derating Curve



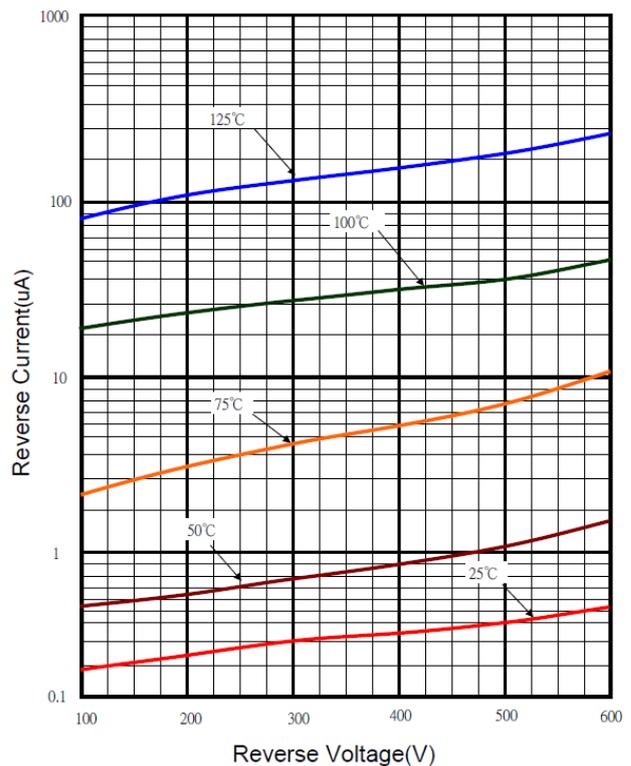
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

