

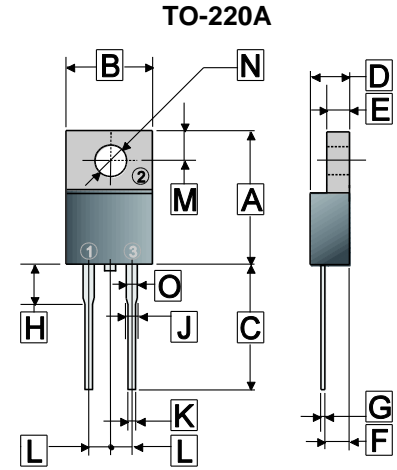
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

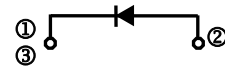
- High Surge Capacity
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- High-Switching Speed 60 Nanosecond Recovery Time
- Low Forward Voltage, High Current Capability
- Low Stored Charge Majority Carrier Conduction
- Plastic Material Used Carries Underwriters Laboratory Flammability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

PACKAGING INFORMATION

Weight: 2.064 grams (approximate)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.68	15.50	H	3.57	4.20
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

(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%.)

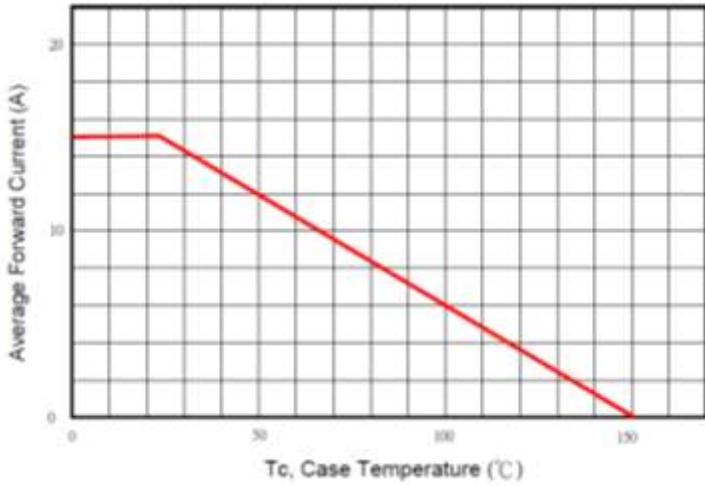
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	480	V
Average Rectifier Forward Current	$I_{F(AV)}$	15	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage	V_F	$I_F=15A, T_C=25^\circ C$	2.8
		$I_F=15A, T_C=125^\circ C$	1.4
Maximum Instantaneous Reverse Current ¹	I_R	$T_C=25^\circ C$	10
		$T_C=100^\circ C$	500
Reverse Recovery Time	T_{RR}	30	nS
Typical Junction Capacitance (Reverse Voltage of 0V & f=1MHz)	C_P	340	pF
Thermal Resistance	$R_{\theta JC}$	4.0	°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65~150	°C

Note:

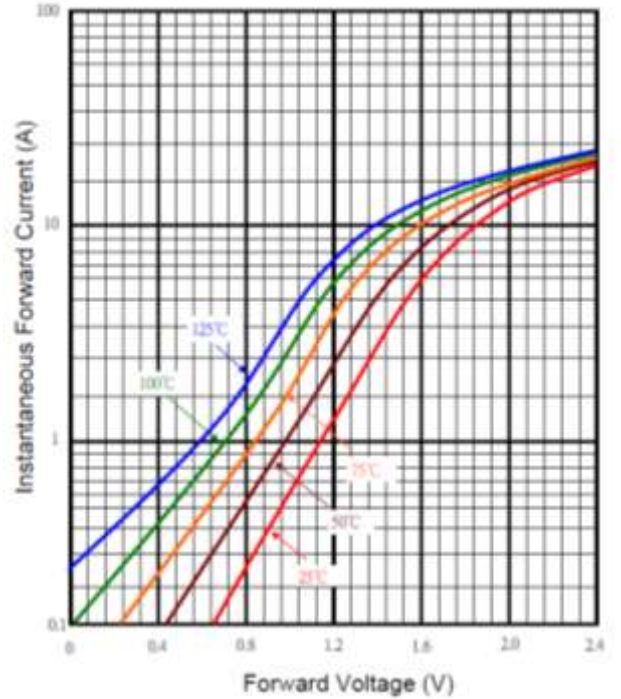
1. Pulse Test: Pulse width=300µs, duty Cycle ≤ 2.0%
2. $I_F = 1A, diF/dt=100A/\mu s, V_{RR}=30V, I_R$ perc.=10%

RATINGS AND CHARACTERISTIC CURVES

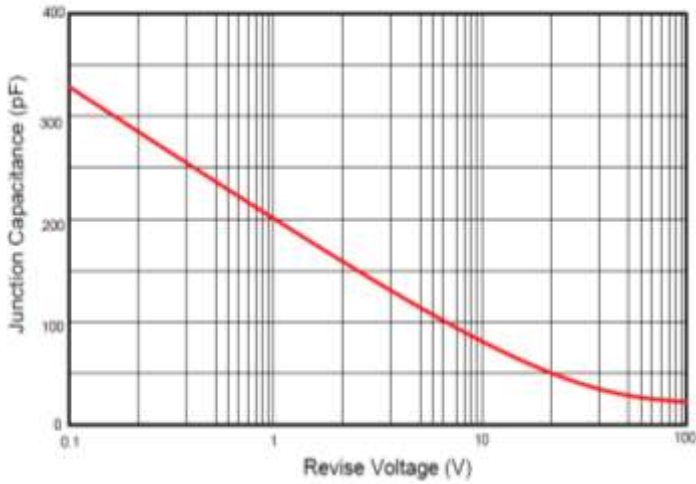
Typical Forward Current Derating Curve



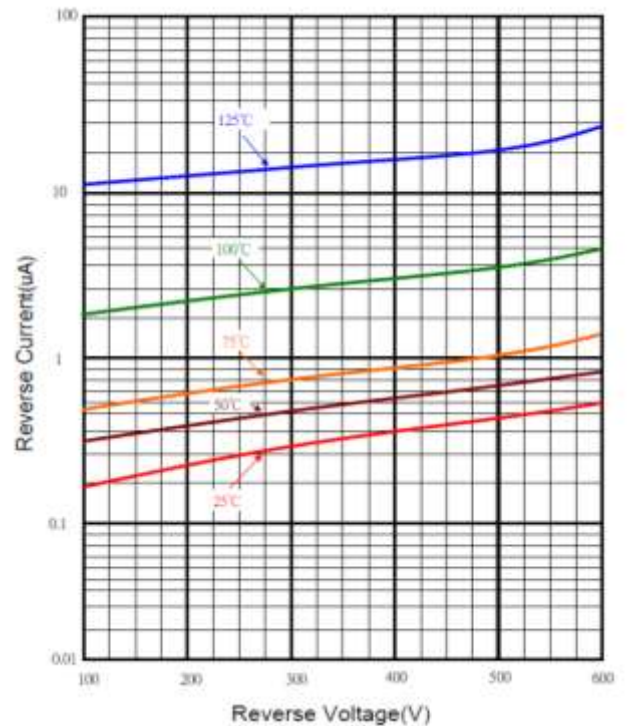
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

