

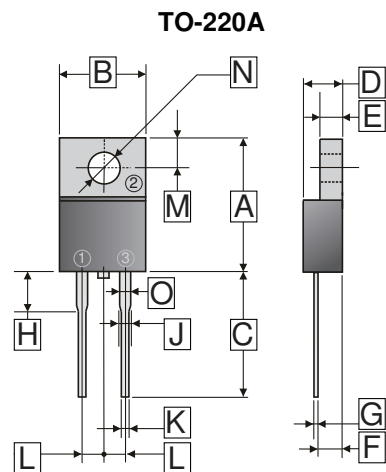
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

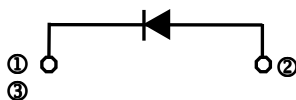
MECHANICAL DATA

- 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
- Weight: 2.064 grams (approximate)



Dimensions in millimeters

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%.)

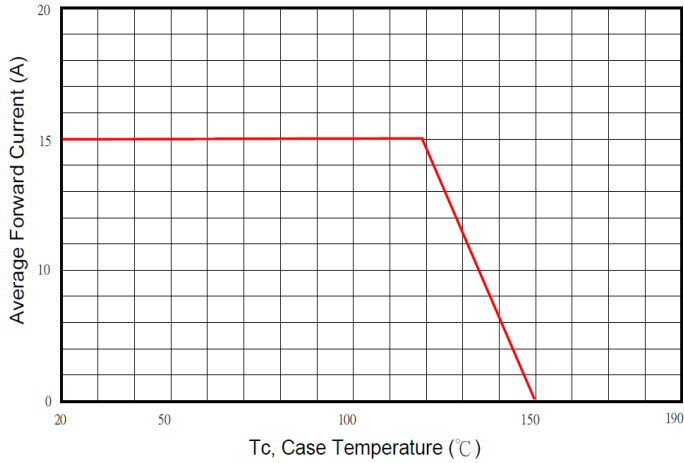
Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RSM}	200	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	I_F	15	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	180	A
Maximum Instantaneous Forward Voltage	V_F	$I_F=15A, T_A=25^\circ C$	0.92
		$I_F=15A, T_A=125^\circ C$	0.8
Maximum DC Reverse Current at Rated DC Blocking Voltage ⁴	I_R	$T_A=25^\circ C$	0.02
		$T_A=125^\circ C$	3
Typical Junction Capacitance ¹	C_J	350	pF
Typical Thermal Resistance ²	$R_{\theta JC}$	2	°C / W
Typical Thermal Resistance ³	$R_{\theta JA}$	10	°C / W
Voltage Rate Of Change (Rated V_R)	dv / dt	10000	V / μs
Operating Temperature Range T_J	T_J	-50~150	°C
Storage Temperature Range T_{STG}	T_{STG}	-65~175	°C

Notes:

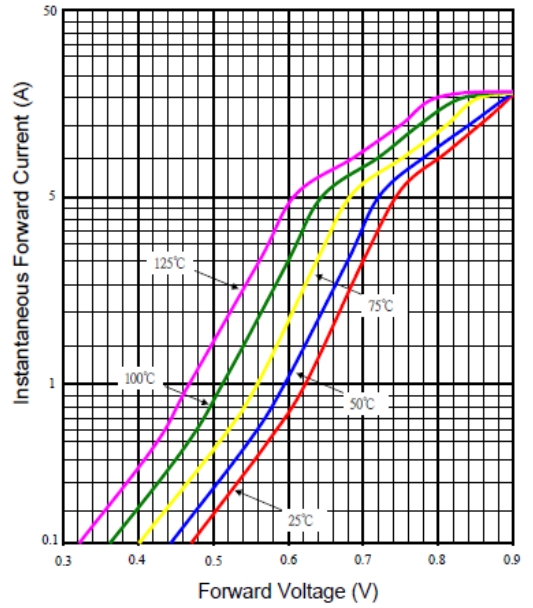
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Thermal Resistance Junction to Ambient.
4. Pulse test: 300μs pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

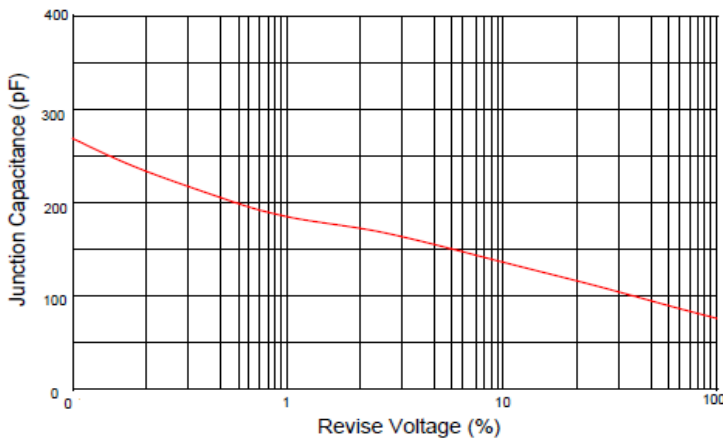
Typical Forward Current Derating Curve



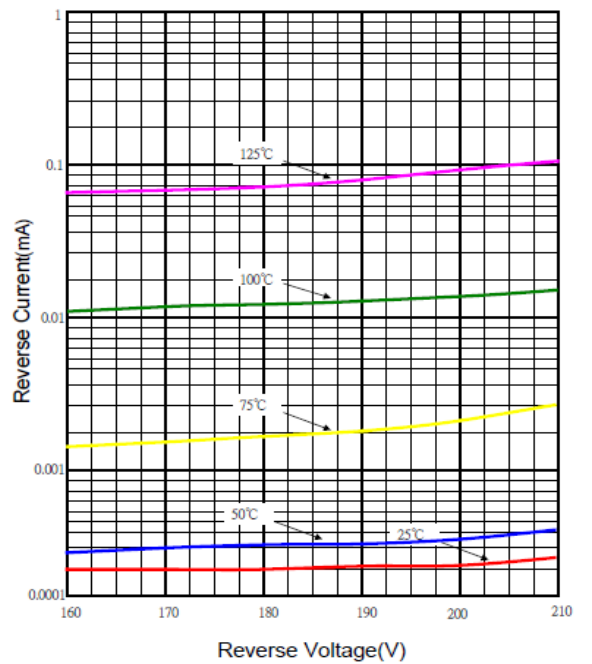
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

