Elektronische Bauelemente

MBR10150

Voltage 150 V

10.0 Amp Schottky Barrier Rectifiers

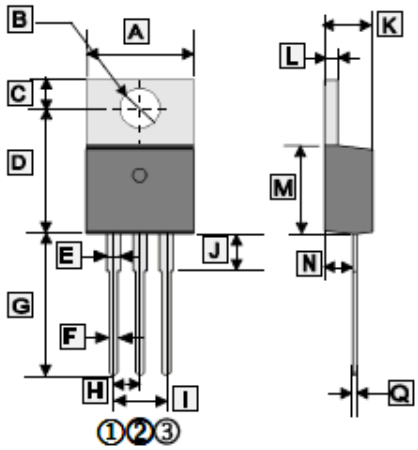
RoHS Compliant Product

A suffix of “-C” specifies halogen free

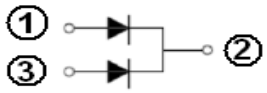
FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0.Flame Retardant Epoxy Molding Compound.
- Metal Silicon Junction, Major Carrier Conduction
- Low Power Loss, High Efficiency
- Guardring for Overvoltage Protection
- For Use in Low Voltage, High Frequency Inverters Free Wheeling, and Polarlity Protection Applications.
- Lead Free in Comply with EU RoHS

TO-220J



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.57	10.57	I	4.68	5.48
B	3.54	4.14	J	2.95	3.96
C	2.54	2.94	K	4.27	4.87
D	11.86	13.26	L	1.07	1.47
E	0.97	1.57	M	8.0	10.0
F	0.51	1.11	N	2.03	2.92
G	12.7	13.8	Q	0.30	0.65
H	2.540 TYP.				



MECHANICAL DATA

- Case: Molded plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: As Marked
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25℃ ambient temperature unless otherwise s pecified. 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}	150	V
Maximum RMS Voltage		V_{RMS}	105	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Rectified Current		I_F	10	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	110	A
Maximum Instantaneous Forward Voltage @I_F=5A		V_F	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	0.02	mA
	T_A=125℃		20	
Typical Thermal Resistance		$R_{\theta JC}$	3	℃/W
Operating and Storage Temperature Range		T_J,T_{STG}	-55~150	℃

RATINGS AND CHARACTERISTIC CURVES

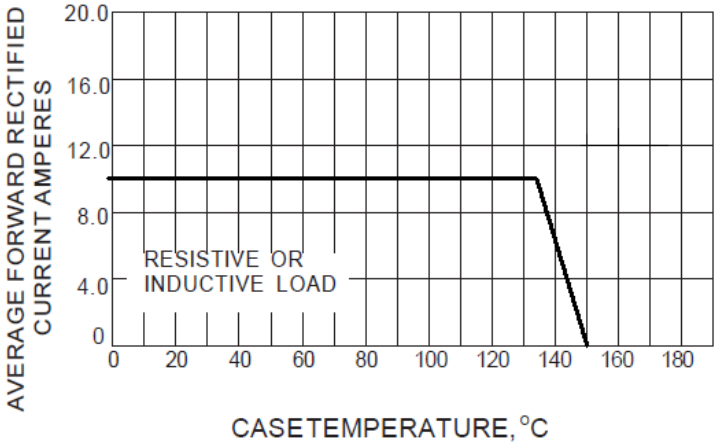


Fig.1 - FORWARD CURRENT DERATING CURVE

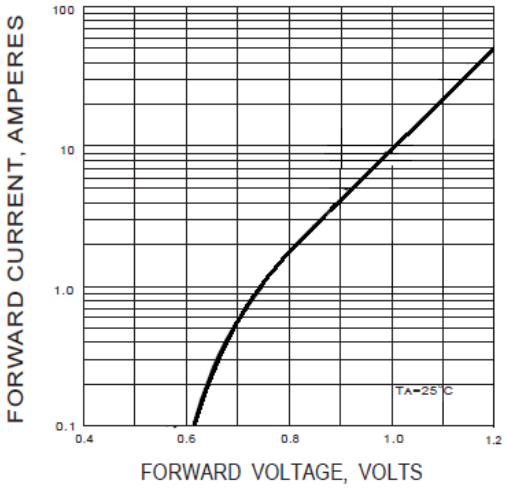


Fig.2 - TYPICAL INSTANTANEOUS FORWAR CHARACTERISTIC

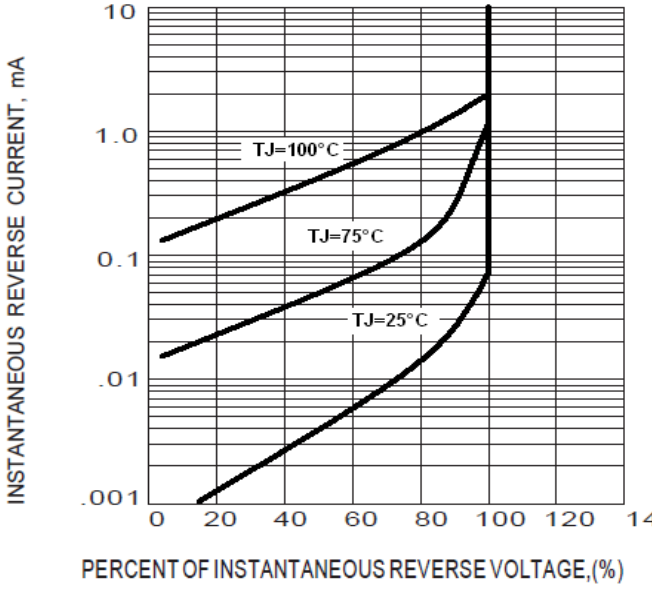


Fig.3 - TYPICAL REVERSE CHARACTERISTICS

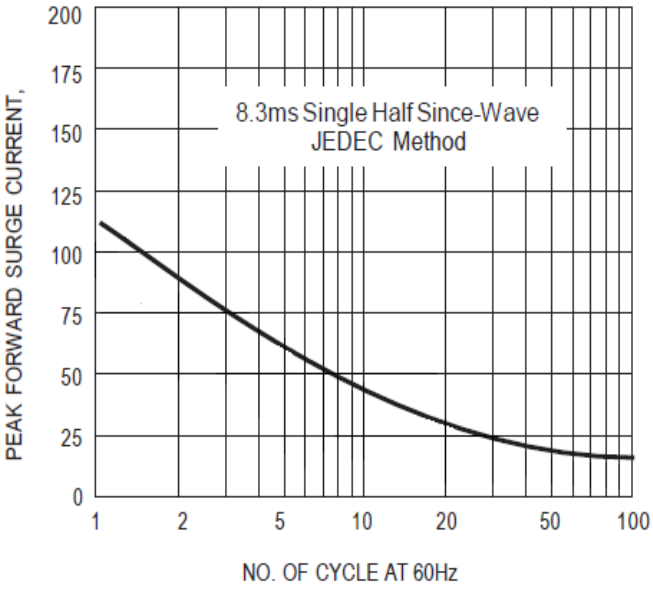


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS