Elektronische Bauelemente

MBR20200F

Voltage 200 V

20.0 Amp Schottky Barrier Rectifiers

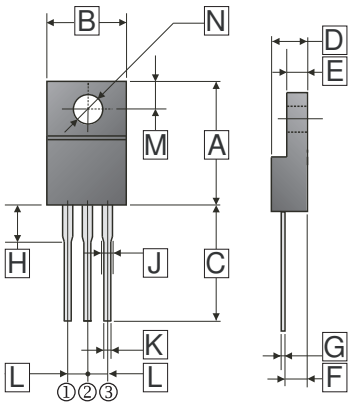
RoHS Compliant Product

A suffix of “-C” specifies halogen free

FEATURES

- Metal silicon junction and majority carrier conduction
- Low power loss
- High efficiency
- High current capability
- For use in low voltage, high frequency inverters free wheeling , and polarlity protection applications.
- Lead free in comply with EU RoHS

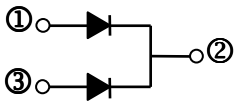
ITO-220J



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.5	15.5	H	3.8 TYP.	
B	9.5	10.5	J	1.30 REF.	
C	13.20 REF.		K	0.3	0.9
D	4.24	4.84	L	2.54 REF.	
E	2.52	3.20	M	2.70 REF.	
F	2.50	2.90	N	ϕ 3.5 REF.	
G	0.47	0.75			

MECHANICAL DATA

- Case : ITO-220J molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : As marked
- Mounting Position : Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%)

Parameter		Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	V
Maximum RMS Voltage		V_{RMS}	140	V
Maximum DC Blocking Voltage		V_{DC}	200	V
Maximum Average Forward Rectified Current@ see fig. 1		I_F	20	A
Peak Forward Surge Current@ 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	150	A
Maximum Instantaneous Forward Voltage@ 10A, per leg		V_F	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_J=25°C	I_R	0.02	mA
	T_J=125°C		20	
Typical Thermal Resistance from Junction to Case		$R_{\theta JC}$	4	°C /W
Operating and Storage Temperature Range		T_J, T_{STG}	-55~150	°C

CHARACTERISTIC CURVES

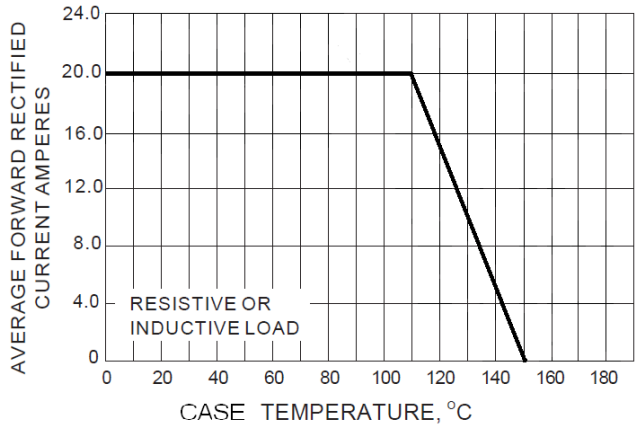


Fig.1- FORWARD CURRENT DERATING CURVE

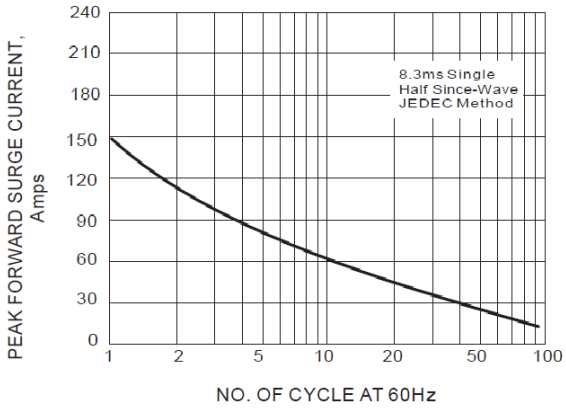


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

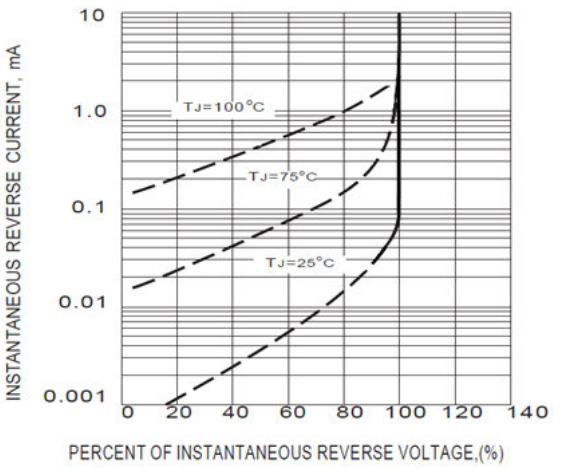


Fig.3- TYPICAL REVERSE CHARACTERISTICS

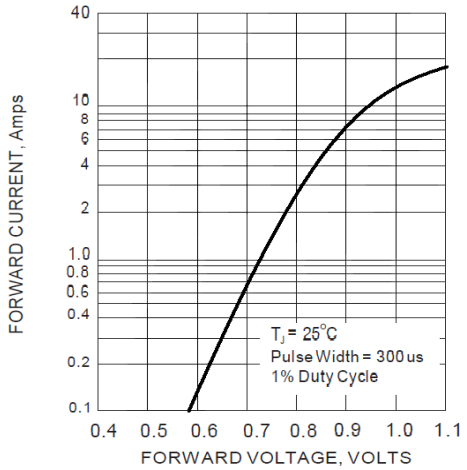


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS