

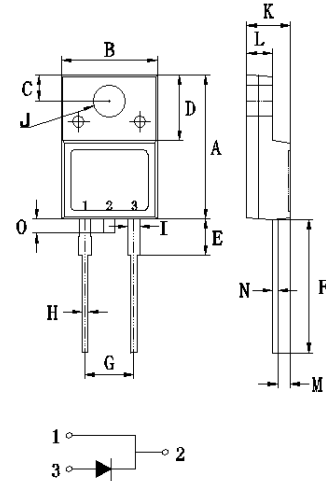
ITO-220AC

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0. Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Lead free in compliance with EU RoHS .

MECHANICAL DATA

- Case: ITO-220AC molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.



ITO-220AC			Unit:mm
DIM	MIN	MAX	
A	14.50	15.50	
B	9.50	10.50	
C	2.50	2.90	
D	6.30	7.30	
E	3.30	4.30	
F	13.00	14.00	
G	2.35	2.75	
H	0.30	0.90	
I	0.90	1.50	
J	3.20	3.80	
K	4.24	4.84	
L	2.52	2.92	
M	1.09	1.49	
N	0.47	0.63	
O	0.00	1.50	

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	MBRF 1040	MBRF 1045	MBRF 1050	MBRF 1060	MBRF 1080	MBRF 1090	MBRF 10100	MBRF 10150	MBRF 10200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward (See Figure 1)	I _{F(AV)}	10									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100				120				A	
Maximum Forward Voltage at 10A	V _F	0.7		0.8		0.85			0.92		V
Maximum DC Reverse Current at Rated DC Blocking T _J =25°C T _J =100°C	I _R	0.1 20									mA
Typical Thermal Resistance	R _{θJC}	3									°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							-65 to +175		°C

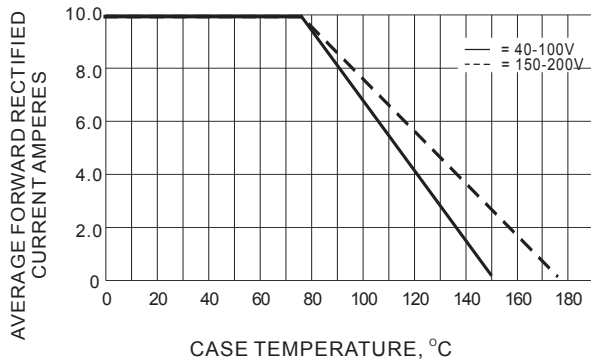


Fig.1- FORWARD CURRENT DERATING CURVE

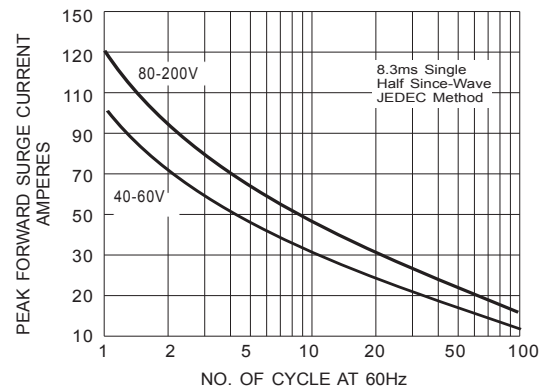


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

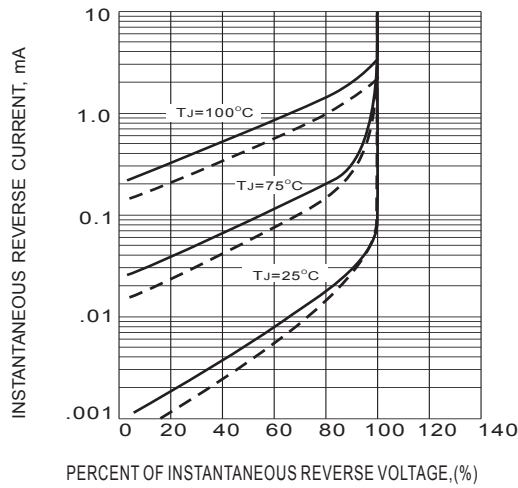


Fig.3- TYPICAL REVERSE CHARACTERISTICS

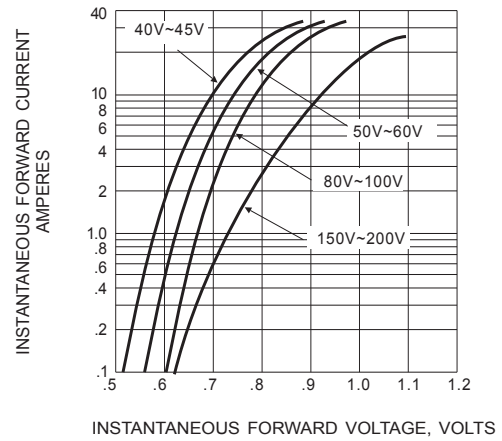


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS