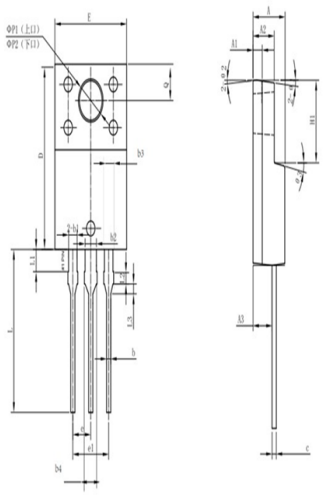
MBRF20150CTATF

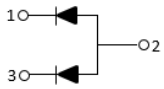
20 AMPERES SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0. Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, 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



A-ITO220 (mm)			
DIM	MIN	MAX	典型值
A	4.30	4.70	4.50
A1	1.10	1.50	1.30
A2	2.80	3.20	3.00
A3	2.50	2.90	2.70
b	0.50	0.75	0.60
b1	1.10	1.35	1.20
b2	1.50	1.75	1.60
b3	1.20	1.45	1.30
b4	1.60	1.85	1.70
c	0.55	0.75	0.60
D	14.80	15.20	15.00
E	9.96	10.36	10.16
e	2.35	2.75	2.55
e1	4.90	5.30	5.10
H1	6.50	6.90	6.70
L	12.70	13.70	13.20
L1	1.60	2.00	1.80
L2	0.80	1.20	1.00
L3	0.60	1.00	0.80
ΦP1(上口)	3.30	3.70	3.50
ΦP2(下口)	2.99	3.39	3.19
Q	2.50	2.90	2.70



TO-220F

MECHANICAL DATA

- Case: TO-220F 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	MBRF20150CTATF	UNITS
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 Current (See fig.1)	$I_{F(AV)}$	20	A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150	A
Maximum Forward Voltage at 10A, per leg	V_F	0.92	V
Maximum DC Reverse Current T_J=25 °C at Rated DC Blocking Voltage T_J=125°C	I_R	0.02 20	mA
Typical Thermal Resistance	$R_{\theta JC}$	2	°C / W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +175	°C

RATING AND CHARACTERISTIC CURVES

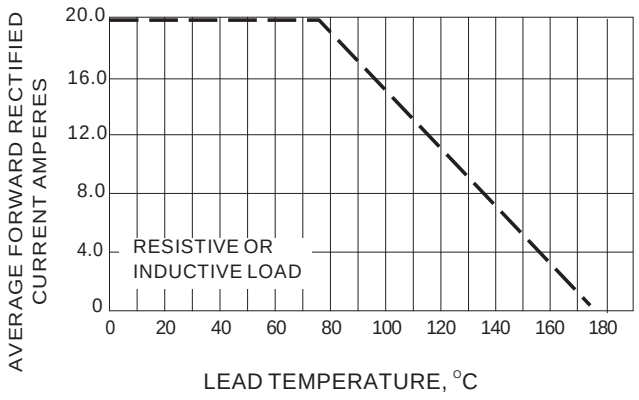


Fig.1- FORWARD CURRENT DERATING CURVE

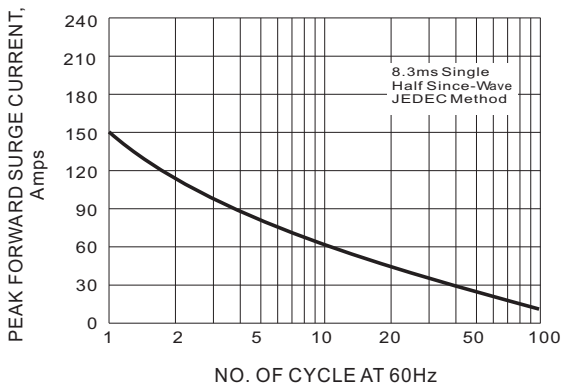


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

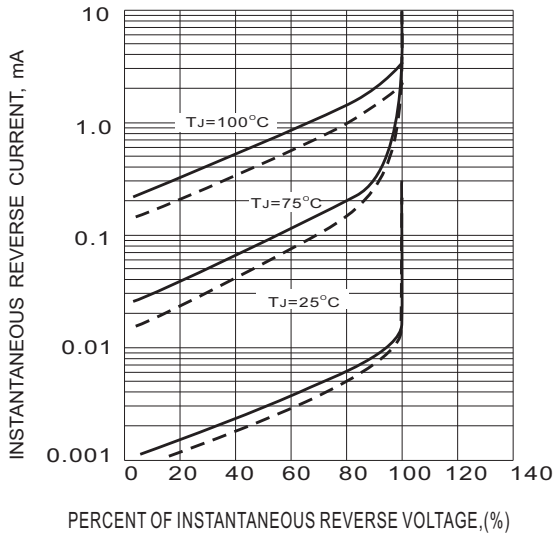


Fig.3- TYPICAL REVERSE CHARACTERISTICS

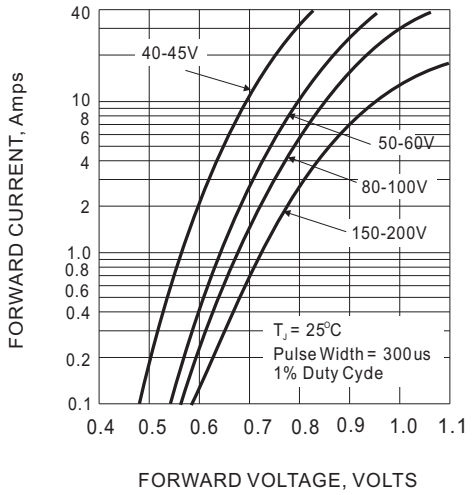


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS