

**SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - **60** Volts  
FORWARD CURRENT - **10** Amperes

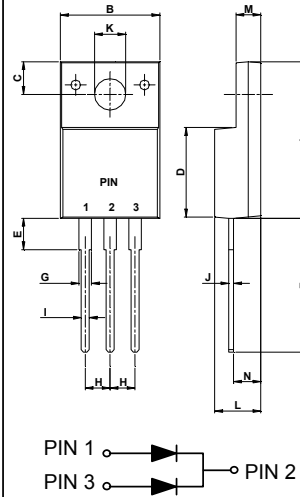
**FEATURES**

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free-wheeling, and polarity protection applications

**MECHANICAL DATA**

- Case : ITO-220AB molded plastic
- Polarity : As marked on the body
- Weight : 0.06 ounces, 1.7 grams
- Mounting position : Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

**ITO-220AB**



ITO-220AB		
DIM.	MIN.	MAX.
A	15.50	16.50
B	10.0	10.40
C	3.00	3.50
D	9.00	9.30
E	2.90	3.60
F	13.46	14.22
G	1.15	1.70
H	2.40	2.70
I	0.75	1.00
J	0.45	0.70
K	3.00 $\varnothing$	3.30 $\varnothing$
L	4.36	4.77
M	2.48	2.80
N	2.50	2.80
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	MBRF1060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	60	V
Maximum RMS Voltage	VRMS	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward Rectified Current at Tc=120°C (See Fig.1)	I(AV)	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	125	A
Peak Repetitive Reverse Current tp=2us, square F=1KHz @Tj=25°C	Irrm	1	A
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
Maximum Forward Voltage, (Note 1) @If=5A Tj=125°C @If=5A Tj=25°C @If=10A Tj=125°C	VF	0.65 0.80 0.90	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=125°C	IR	0.02 15	mA
Typical Junction Capacitance, per element (Note 2)	CJ	220	pF
Typical Thermal Resistance (Note 3)	ReJC	4.0	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	TSTG	-55 to +175	°C
Dielectric Strength from terminals to case, AC with t=1 minute, RH<30%	Vdis	2000	V

- NOTES : 1. 300us Pulse Width, 2% Duty Cycle.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
3. Thermal Resistance Junction to Case.

FIG.1 - FORWARD CURRENT DERATING CURVE

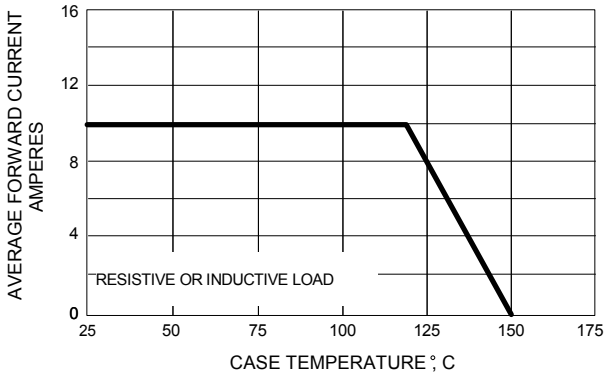


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

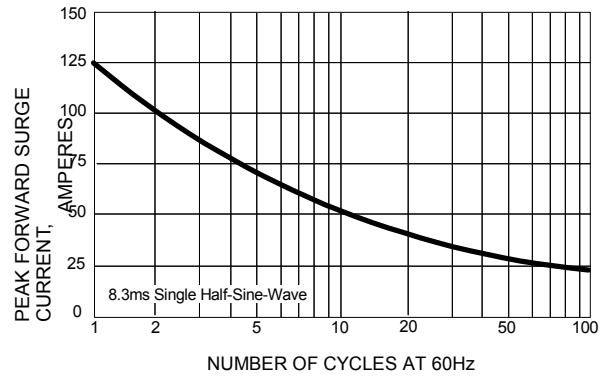


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

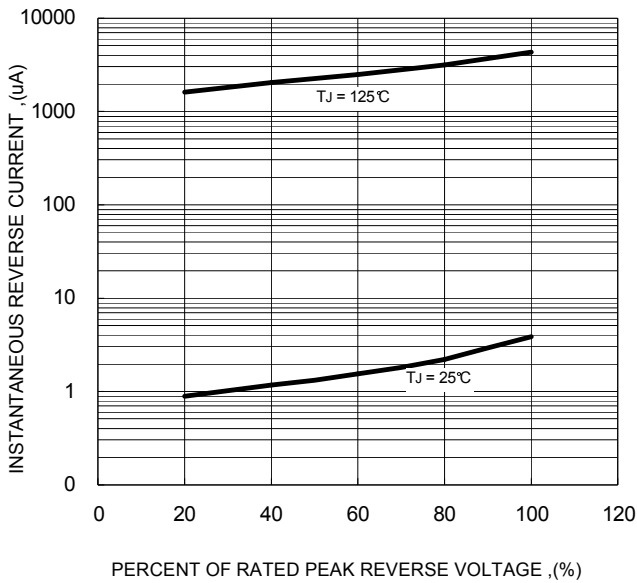


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

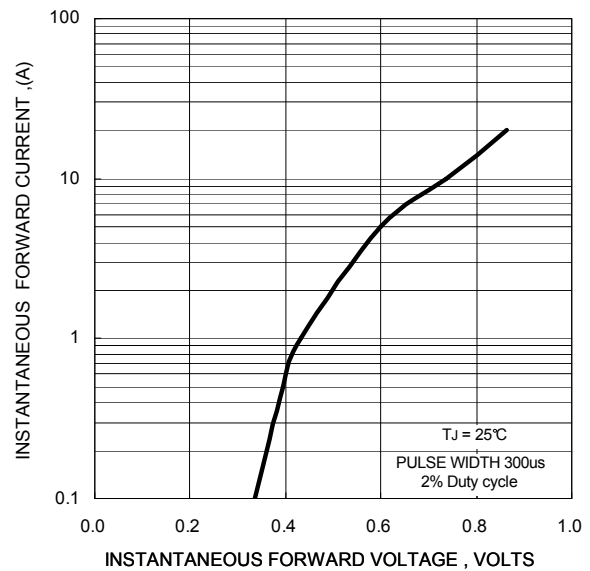
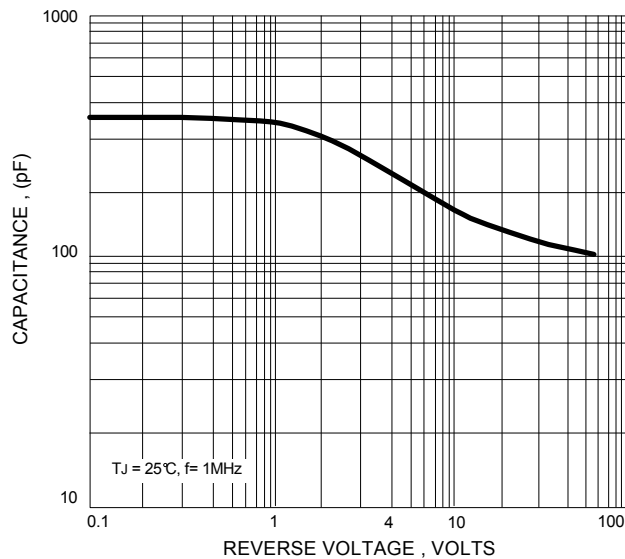


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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