

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **60** Volts
FORWARD CURRENT - **20** Amperes

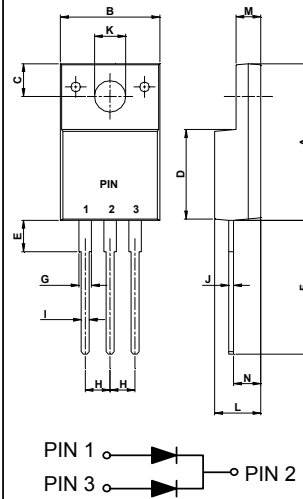
FEATURES

- 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, 1.70 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∅	3.30∅
L	4.36	4.77
M	2.48	2.80
N	2.50	2.80
All Dimensions in millimeter		

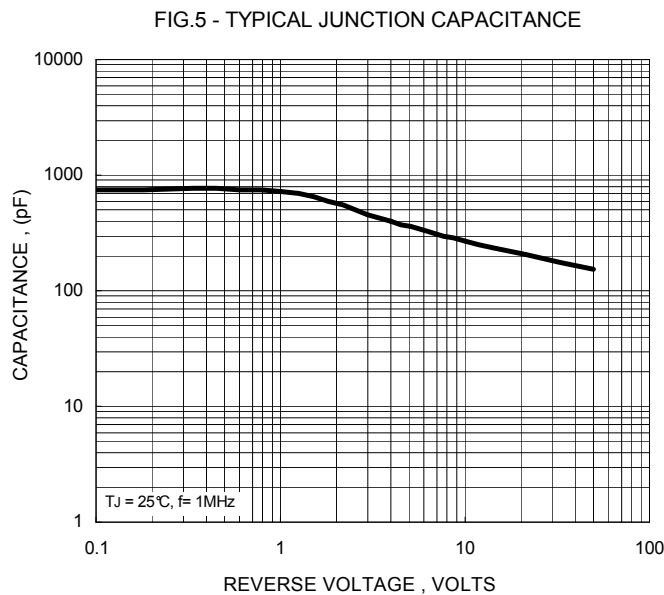
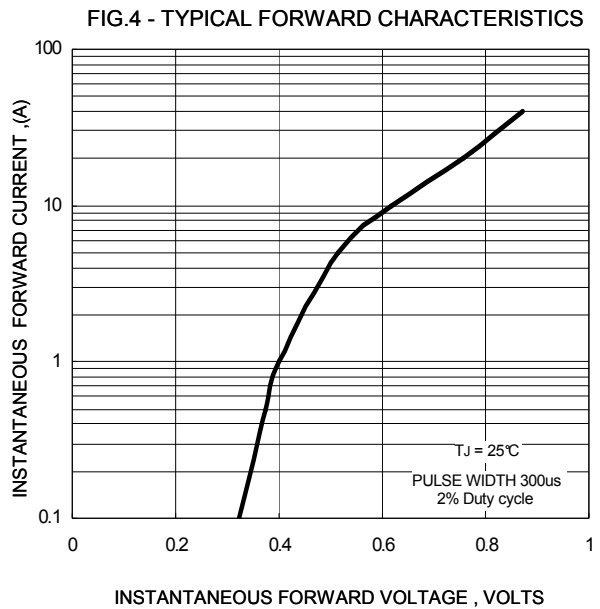
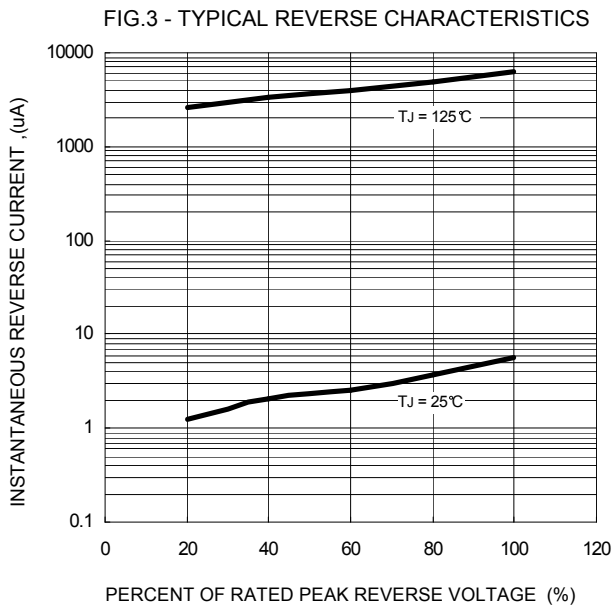
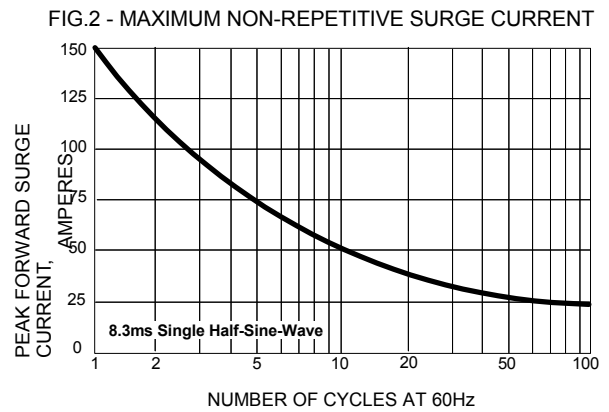
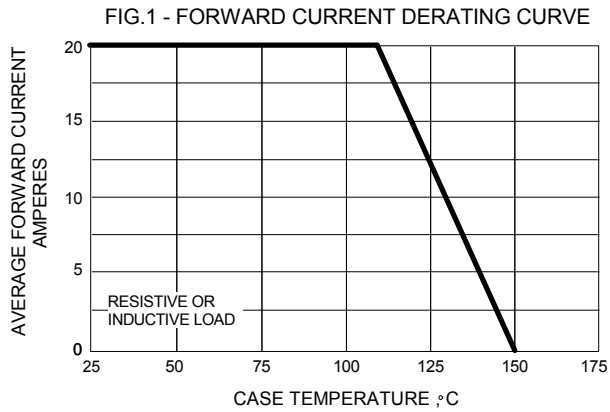
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	MBRF2060CT	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 (See Fig.1) Tc = 110°C	I(AV)	20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	150	A
Peak Repetitive Reverse Current @Tj=25°C tp=2us, square F=1KHz	IRRM	1	A
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
Maximum Forward Voltage (Note 1) If=10A @ Tj=25°C If=10A @ Tj=125°C If=20A @ Tj=25°C If=20A @ Tj=125°C	VF	0.80 0.70 0.95 0.85	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=125°C	IR	0.02 25	mA
Typical Junction Capacitance per element (Note 2)	CJ	400	pF
Typical Thermal Resistance (Note 3)	ReJC	2.5	°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. Device mounted on 100 mm x 100 mm x 2 mm Cu Plate Heatsink.

REV. 5, Apr-2011, KTHC58



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.