

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 20 Amperes

ITO-220AB

FEATURES

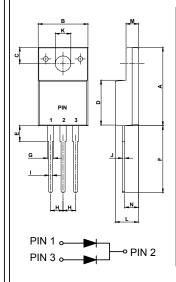
- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- Low leakage current
- High current capability, low VF
- · High surge capacity
- Plastic package has UL flammability classification 94V-0

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			
DIM.	MIN.	MAX.	
Α	15.50	16.50	
В	10.0	10.40	
С	3.00	3.50	
D	9.00	9.30	
Е	2.90	3.60	
F	13.46	14.22	
G	1.15	1.70	
Н	2.40	2.70	
- 1	0.75	1.00	
J	0.45	0.70	
K	3.00 Ø	3.30 Ø	
L	4.36	4.77	
М	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.

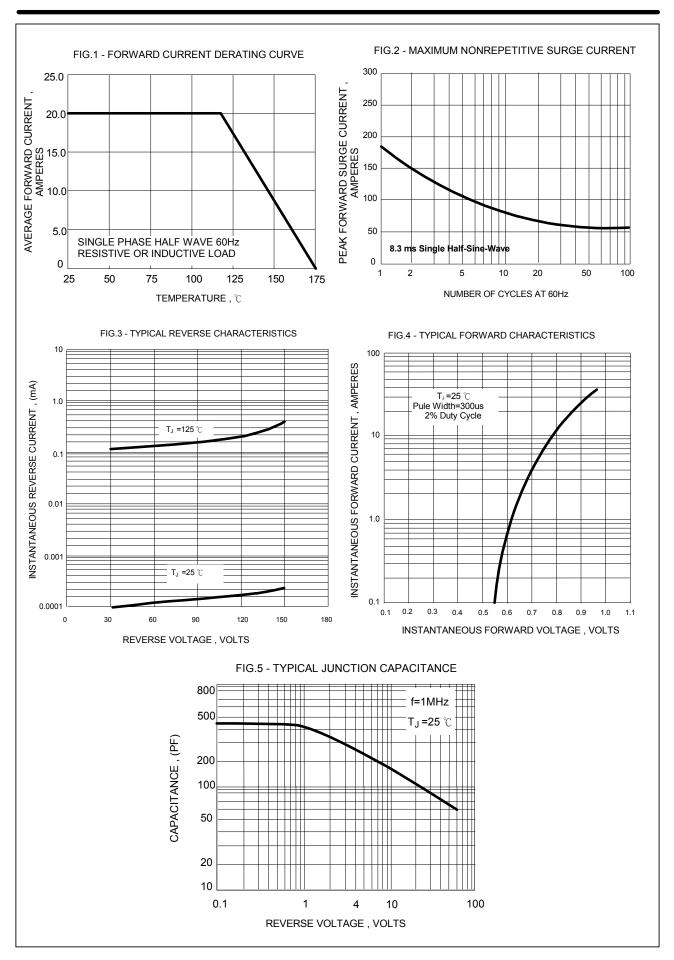
CHARACTERISTICS	SYMBOL	MBRF20150CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	150	V
Maximum RMS Voltage	VRMS	105	V
Maximum DC Blocking Voltage	VDC	150	V
Maximum Average Forward Rectified Current (See Fig.1) Tc =120°C	l(AV)	20	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	180	А
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
IF=10A @ TJ=25 ℃ Maximum Forward IF=10A @ TJ=125 ℃ IF=20A @ TJ=25 ℃ IF=20A @ TJ=125 € © TT=125 € © TT	VF	0.92 0.75 1.00 0.86	>
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =125°C	lR	8 5	uA mA
Typical Thermal Resistance (Note 2)	Rejc	2.5	°C/W
Typical Junction Capacitance per element (Note 3)	Cı	250	pF
Operating Junction and Storage Temperature Range	T _{J,} Tstg	-65 to +175	$^{\circ}\!\mathbb{C}$
Dielectric Strengh from terminals to case, AC with t=1 minute, RH<30%	V _{dis}	2000	V

NOTES: 1. 300us Pulse Width, 2% Duty Cycle.

- 2. Device mounted on 226 x114 x 8mm Alumium plate
- 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

REV. 2, Oct-2010, KTHC31







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.