

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 45 Volts FORWARD CURRENT - 10 Amperes

FEATURES

- Metal of silicon rectifier, majority carrier conducton
- 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 whelling, and polarity protection applications

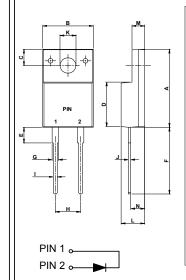
MECHANICAL DATA

Case: ITO-220AC 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-220AC



ITO-220AC				
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	4.83	5.33		
I	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.

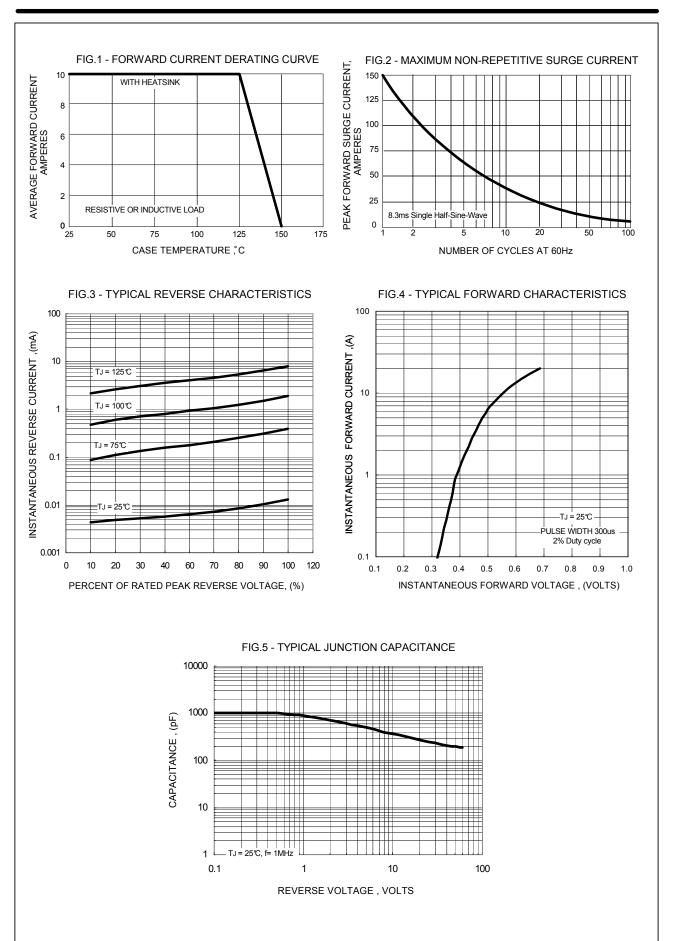
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CHARACTERISTICS	SYMBOL	MBRF1045	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	45	V
Maximum RMS Voltage	VRMS	31.5	V
Maximum DC Blocking Voltage	VDC	45	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=125°C	I(AV)	10	А
Peak Forward Surge Current 8.3ms single half sine-wave	IFSM	150	А
Maximum Forward Voltage at IF = 10A TJ =25℃	VF	0.57	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =125°C @TJ =125°C	I IR	0.1 15	mA
Typical Thermal Resistance (Note 1)	Rejc	2.5	°C/W
Typical Junction Capacitance (Note 2)	Сл	570	pF
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +175	°C
Dielectric Strengh from terminals to case, AC with t=1 minute, RH<30%	Vdis	2000	V

NOTES: 1.Thermal Resistance Junction to Case.

- 2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3.Device mounted on 135mm x 135mm x 8 mm Alumium Plate Heatsink.

REV. 3, Oct-2010, KTHC42







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