

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 40 Volts FORWARD CURRENT - 10 Amperes

ITO-220AC

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

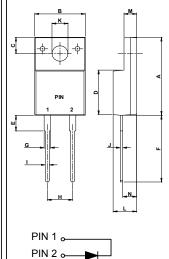
MECHANICAL DATA

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)

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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.

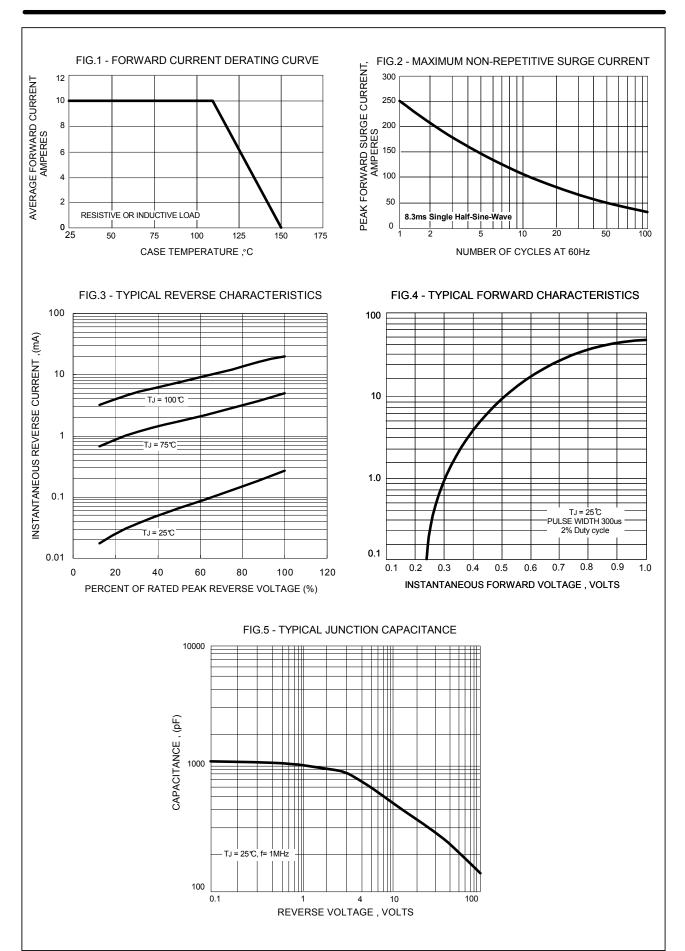
CHARACTERISTICS	SYMBOL	SBF1040	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	40	V
Maximum RMS Voltage	VRMS	28	V
Maximum DC Blocking Voltage	VDC	40	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=110℃	I(AV)	10	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	250	А
Maximum Forward Voltage at 10A DC (Note 1)	VF	0.60	V
Maximum DC Reverse Current @TJ=25 ℃ at Rated DC Blocking Voltage @TJ=100 ℃	lR	1 50	mA
Typical Junction Capacitance per element (Note 2)	Cì	680	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 +150	°C
Dielectric Strengh 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.

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