



# DATA SHEET

SEMICONDUCTOR

SB1620FCT~SB16150FCT

16 AMPERE SCHOTTKY BARRIER RECTIFIERS

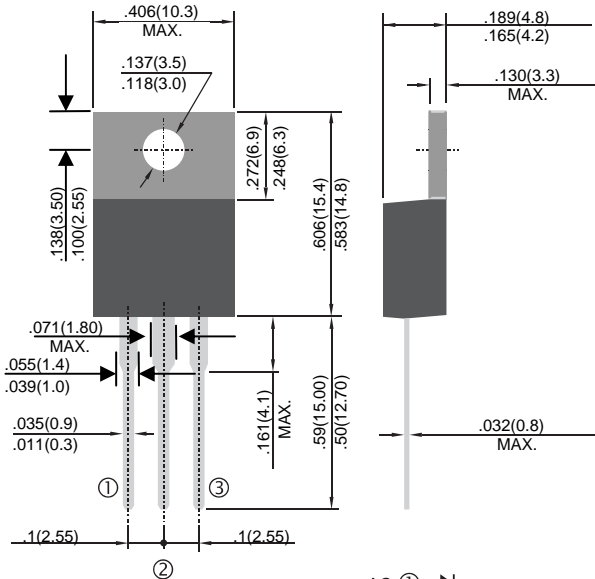


VOLTAGE - 20 to 150 Volts CURRENT - 16.0 Amperes

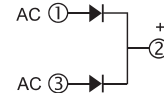
ITO-220AB Unit:inch(mm)

## FEATURES

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O utilizing
- Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency
- Low forward voltage, high current capability
- High surge capacity
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request



Positive CT



## MECHANICAL DATA

- Case: ITO-220AB molded plastic
- Terminals: Lead, solderable per MIL-STD-202, Method 208
- Polarity: As marked
- Mounting Position: Any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase half wave 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

SYMBOL	SB	SB	SB	SB	SB	SB	SB	SB	UNIT
	1620FCT	1630FCT	1640FCT	1650FCT	1660FCT	1680FCT	16100FCT	16150FCT	
Maximum Recurrent Peak Reverse Volt	20	30	40	50	60	80	100	150	V
Maximum RMS Volt	14	21	28	35	42	56	70	105	V
Maximum DC Blocking Volt	20	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current at TC=90°C	16.0								A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load(JEDEC method)	150							120	A
Maximum Forward Voltage at 8.0A per element	0.55		0.75			0.85		0.92	V
Maximum DC Reverse Current at Rated TC=25 °C	0.5							0.1	mA
DC Blocking Voltage per element TC=100°C	100							7	
Typical Thermal Resistance Note RθJA	60								°C /W
Operating and Storage Temperature Range TJ,TSTG	-55 to +150								°C

NOTES:

Thermal Resistance Junction to Ambient

# DEVICE CHARACTERISTICS

## SB1620FCT~SB16150FCT

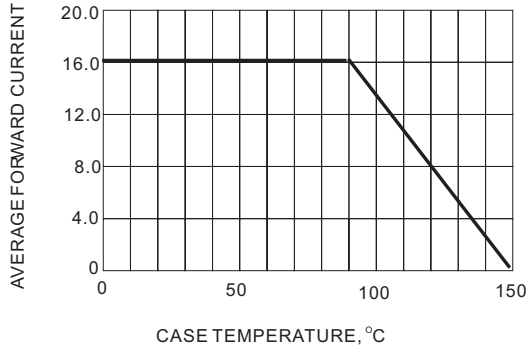


Fig.1- FORWARD CURRENT DERATING CURVE

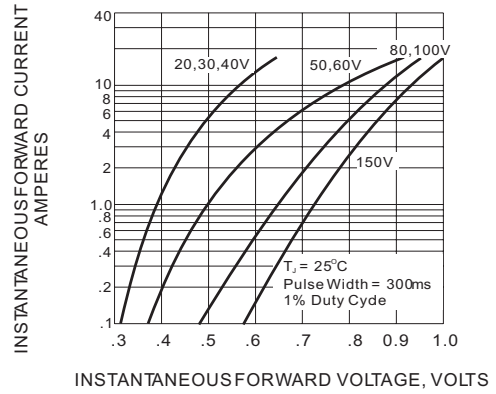


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

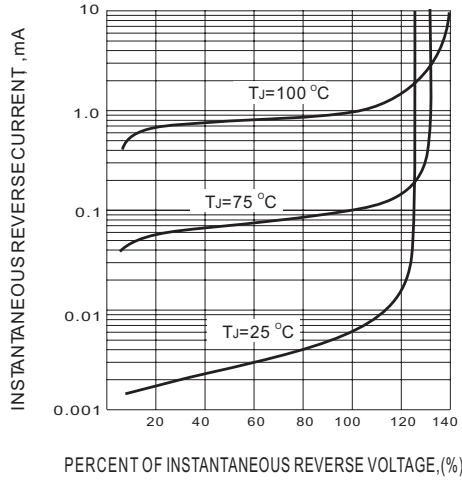


Fig.3- TYPICAL REVERSE CHARACTERISTIC

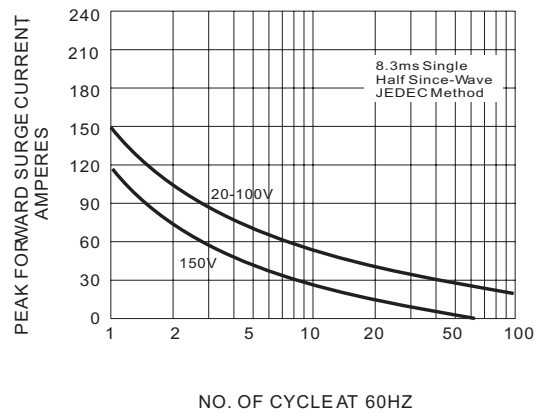


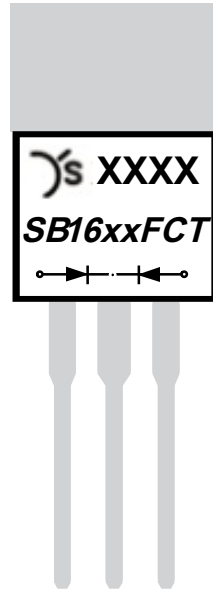
Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT



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YEASHIN TECHNOLOGY CO., LTD.

## Marking Information

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Line 1: YS Logo and Date code

The first half of Line 1: YS logo



The second half of Line 1:

YYWW: Year,

YYWW: Week.

Line 2 : Device name and Package type

SB : Schottky Barrier Rectifier

16xx: 16 Ampere Series product.

16xx: The peak reverse Voltage of product.

Line 3 : Device Structure symbol



TO/ITO220 包装规范

Packing 包装	Dimension 尺寸	Qty 数量	Picture 图示
Bag/Tube 袋/管装	527mm*33mm*7mm	50 PCS	
Inner box 内盒	555mm*140mm*55mm	2000 PCS	 <p>标签贴盒盖正面中心处</p>
Carton 外箱	575mm*285mm *155mm	8000 PCS	 <p>外箱两侧贴标签位置</p>