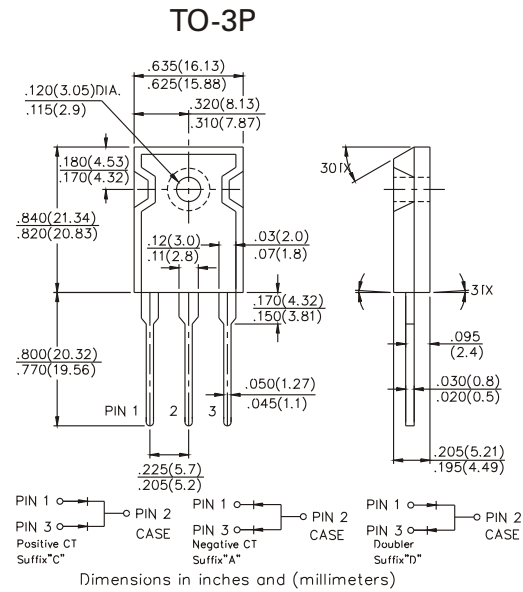
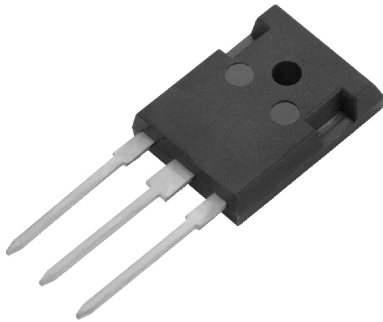


SB4020PT thru SB40150PT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 200 VOLTS CURRENT - 40 AMPERES



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 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/10seconds at terminals
- Pb free product are available : 99% Sn above can meet RoHS
- Environment substance directive request

MECHANICAL DATA

Case : TO-3P Molded plastic
 Terminals : Lead, solderable per MIL-STD-202, Method 208
 Polarity : As Marked
 Mounting Position : Any
 Weight : 0.08 ounces, 2.24gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	SB 4020PT	SB 4030PT	SB 4040PT	SB 4050PT	SB 4060PT	SB 4080PT	SB 40100PT	SB 40150PT	UNITS	
Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	80	100	150	Volts	
Maximum RMS Voltage	14	21	28	35	42	56	70	105	Volts	
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	150	Volts	
Maximum Average Forward Rectified Current at T _c =90°C	40								Amps	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	350								300	Amps
Maximum Forward Voltage at 20A per element	0.55		0.75		0.85		0.92		Volts	
Maximum DC Reverse Current T _c =25°C DC Blocking Voltage per element T _c =100°C	0.5 100								0.1 7	mA
Typical Thermal Resistance Note R _{θJA}	100								°C / W	
Operating and Storage Temperature Range	-55 to +150								°C	

NOTE :

1. Thermal Resistance Junction to Ambient

SB4020PT thru SB40150PT

SCHOTTKY BARRIER RECTIFIER

RATING AND CHARACTERISTICS CURVES SB4020PT THRU SB40150PT

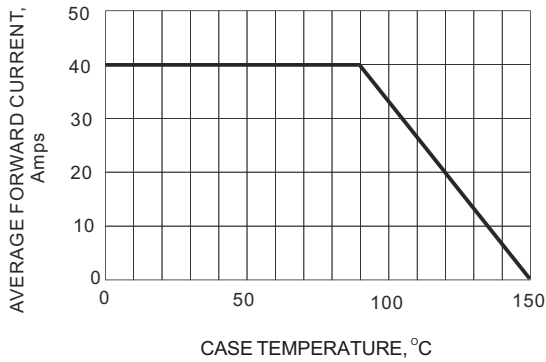


Fig.1- FORWARD CURRENT DERATING CURVE

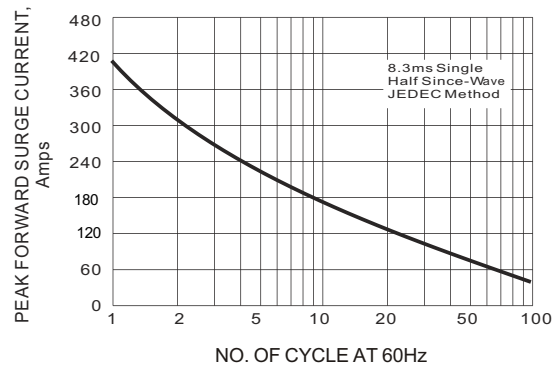


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

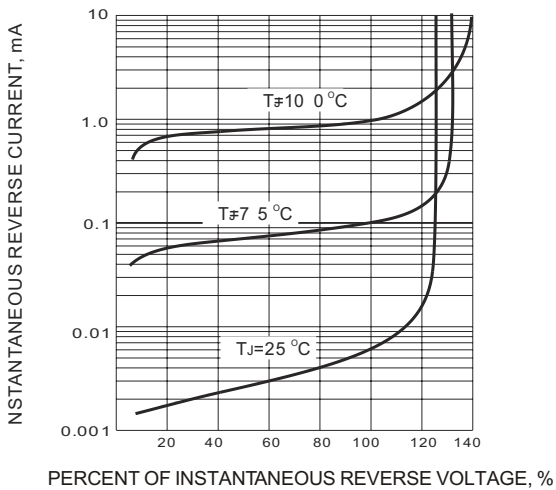


Fig.3- TYPICAL REVERSE CHARACTERISTIC

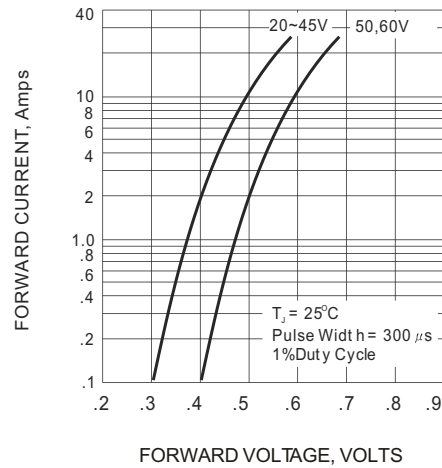


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC