



#### SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 45 Volts CURRENT 60 Amperes

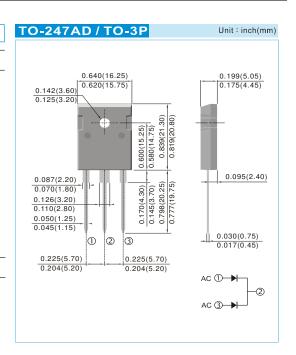
#### **FEATURES**

 Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 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 polarlity protection applications.
- · Lead free in comply with EU RoHS 2011/65/EU directives



- Case: TO-247AD/TO-3P Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- · Weight: 0.2245 ounces, 6.3673 grams.



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

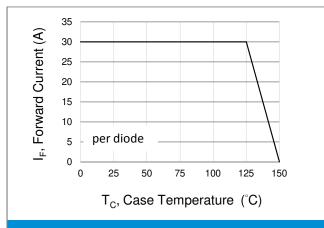
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER		SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	45	V
Maximum RMS Voltage		V <sub>RMS</sub>	31.5	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	45	٧
Maximum Average Forward Current	per device per diode	I <sub>F(AV)</sub>	60 30	А
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	500	А
Maximum Forward Voltage at 30A	per diode	V <sub>F</sub>	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per dioc		I <sub>R</sub>	0.25	mA
Typical Thermal Resistance (Note 1)	per diode	$R_{_{\theta JC}}$	1.5	°C / W
Operating Junction and Storage Temperature Range		T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150	°C

NOTE: 1.Mount on semi-infinite heatsink







**Fig.1 Forward Current Derating Curve** 

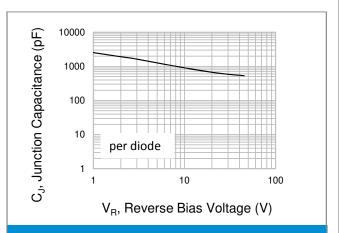
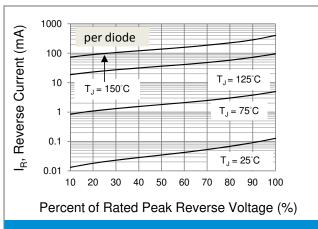


Fig.2 Typical Junction Capacitance



**Fig.3 Typical Reverse Characteristics** 

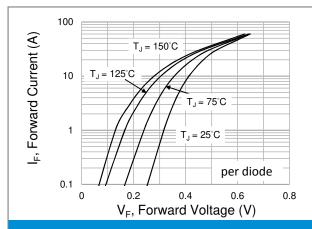


Fig.4 Typical Forward Characteristics





#### Part No\_packing code\_Version

SB6045PT\_T0\_00001 SB6045PT\_T0\_10001

# For example : RB500V-40\_R2\_00001 Part No. Serial number Version code means HF Packing size code means 13"

Packing Code XX					Version Code XXXXX		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1st Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				

Packing type means T/R





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