



SCHOTTKY BARRIER RECTIFIERS

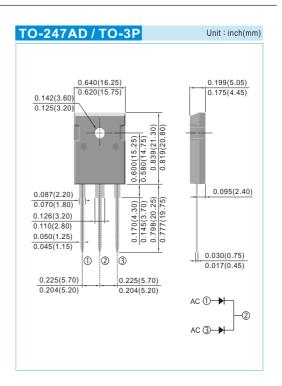
VOLTAGE 20 to 60 Volt CURRENT 30 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- · 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 compliance with EU RoHS 2011/65/EU directive



- Case: 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	SB3020PT	SB3030PT	SB3040PT	SB3045PT	SB3050PT	SB3060PT	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	V
Maximum RMS Voltage		14	21	28	31.5	35	42	٧
Maximum DC Blocking Voltage		20	30	40	45	50	60	V
Maximum Average Forward Current at Tc =75°C	I _{F(AV)}	30						А
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275						А
Maximum Forward Voltage at 15A per leg	V _F	0.55 0.7				V		
Maximum DC Reverse Current at Rated $T_J=25^{\circ}C$ DC Blocking Voltage $T_J=100^{\circ}C$	I _R	0.2 50						mA
Typical Thermal Resistance	R _{eJC}		°C / W					
Operating Junction Temperature Range	T _J	-55 to +125 -55 to +150				°C		
Storage Temperature Range	T _{STG}	-55 to +150						°C

NOTE:

Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

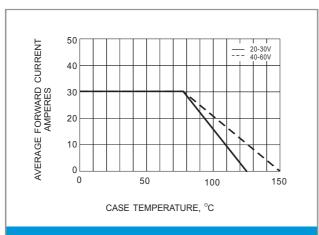


Fig.1 FORWARD CURRENT DERATING CURVE

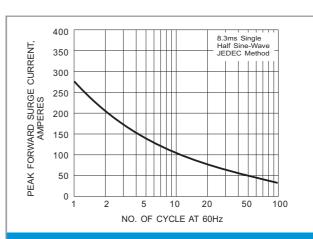


Fig.2 MAXIMUM NON - REPETITIVE SURGE CURRENT

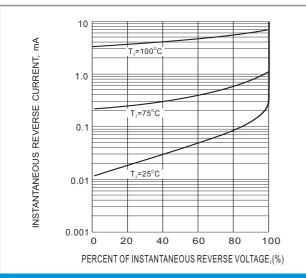


Fig.3 TYPICAL REVERSE CHARACTERISTIC

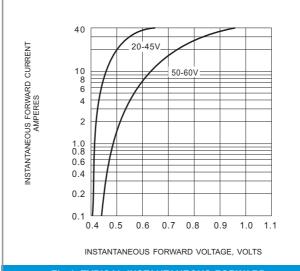


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

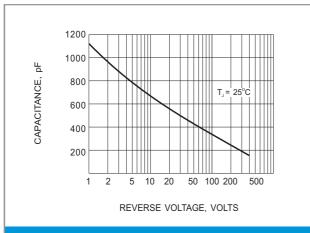


Fig.5 TYPICAL JUNCTION CAPACITANCE

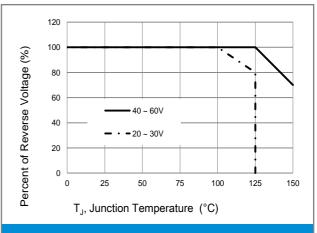


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

SB3020PT_T0_00001 SB3020PT_T0_10001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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						





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