



SB1020DC~SB1060DC

SCHOTTKY BARRIER RECTIFIERS

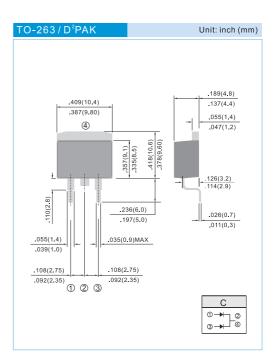
VOLTAGE 20 to 60 Volts CURRENT 10 Amperes

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 forwrd voltge, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- In compliance with EU RoHS 2002/95/EC directives



- Case: TO-263 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.Standard packaging: Any
- Weight: 0.0514 ounces, 1.46 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	SB1020DC	SB1030DC	SB1040DC	SB1045DC	SB1050DC	SB1060DC	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	٧
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	10						Α
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150						Α
Maximum Forward Voltage at 5A,	V _F	0.55 0.75				V		
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =100°C	I _R	0.2 50 0.1 50				m A		
Typical Thermal Resistance	R _{eJC}	3.0						°C / W
Operating Junction Temperature Range	TJ	-55 to +125 -55 to +150					°C	
Storage Temperature Range	Тѕтс	-55 to +150						°C

Note.

Both Bonding and Chip structure are available.

STAD-APR.27.2009 PAGE . 1





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RATING AND CHARACTERISTIC CURVES

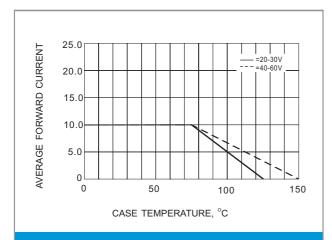


Fig.1- FORWARD CURRENT DERATING CURVE

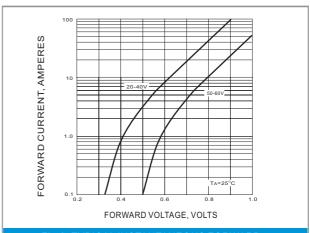


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

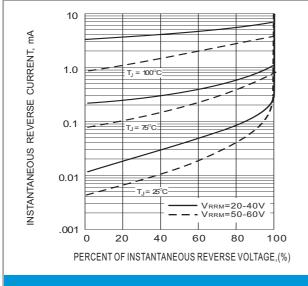


Fig.3- TYPICAL REVERSE CHARACTERISTIC

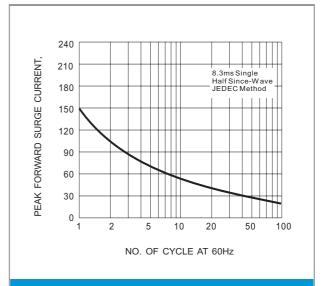


Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT

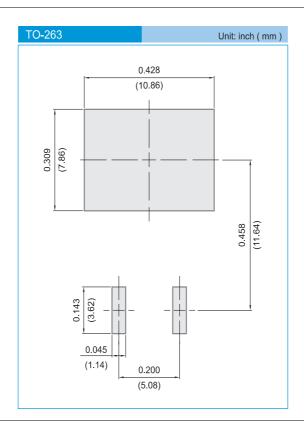
STAD-APR.27.2009 PAGE . 2





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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 0.8K per 13" plastic Reel

LEGAL STATEMENT

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STAD-APR.27.2009 PAGE . 3