



SURFACE SCHOTTKY BARRIER RECTIFIERS

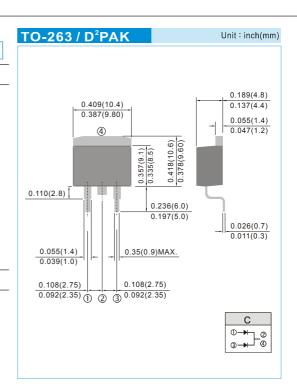
VOLTAGE 20 to 60 Volt CURRENT 16 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing 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 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: TO-263/D2PAK molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Weight: 0.049 ounces, 1.38 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.

PARAMETER	SYMBOL	SB1620DC	SB1630DC	SB1640DC	SB1650DC	SB1660DC	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	٧
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Current lead length at Tc =75°C	I _{F(AV)}	16					Α
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150					А
Maximum Forward Voltage at 8.0A per leg		0.55 0.75			٧		
Maximum DC Reverse Current at Rated $T_J=25^{\circ}C$ DC Blocking Voltag $T_J=100^{\circ}C$	I _R	0.2 50			mA		
Typical Thermal Resistance	R _{eJC}	2.0			°C / W		
Operating Junction Temperature Range	TJ	-55 to	55 to +125 -55 to +150		°C		
Storage Temperature Range	Тѕтс	-55 to +150			°C		





RATING AND CHARACTERISTIC CURVES

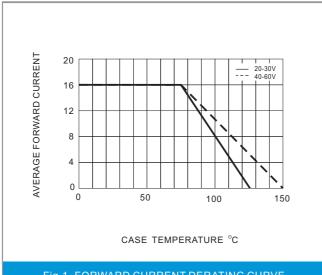


Fig.1- FORWARD CURRENT DERATING CURVE

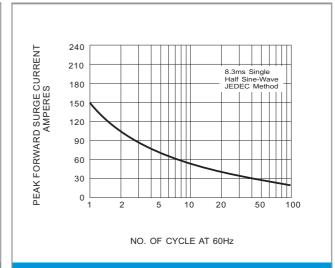
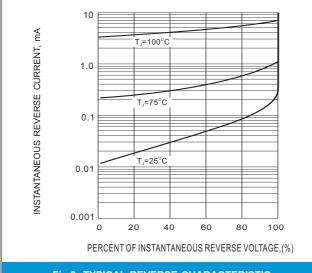


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT





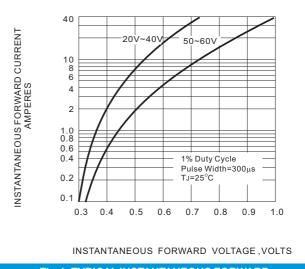


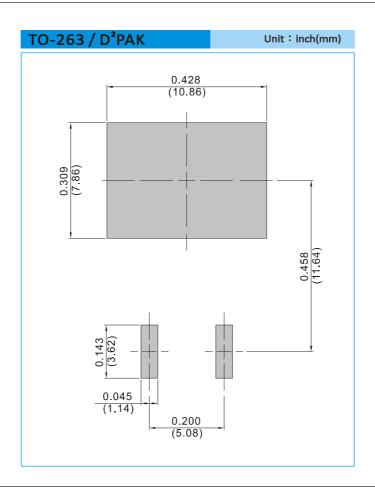
Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 0.8K per 13" plastic Reel

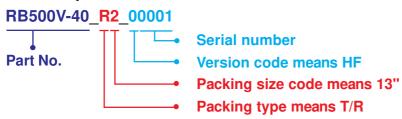




Part No_packing code_Version

SB1620DC_R2_00001

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)	A	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)	Ø	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	Ш	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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