

#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE **TO-263 / D<sup>2</sup>PAK** 20 to 60 Volt CURRENT 8 Ampere Unit : inch(mm) **FEATURES** · Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing 0.189(4.8) 0.409(10.4) 0.137(4.4) Flame Retardant Epoxy Molding Compound. 0.387(9.80) 0.055(1.4) · Low power loss, high efficiency. (4) 0.047(1.2) · Low forward voltage, high current capability 0.378(9.60) .357(9.1) .335(8.5) · High surge capacity. · For use in low voltage, high frequency inverters free wheeling , and polarlity protection applications. 0.110(2.8) 0.236(6.0) · Lead free in compliance with EU RoHS 2.0 0.197(5.0) 0.026(0.7) · Green molding compound as per IEC 61249 standard 0.011(0.3) 0.055(1.4) 0.035(0.9)MAX. **MECHANICAL DATA** 0.039(1.0) Case: TO-263 / D<sup>2</sup>PAK molded plastic package 0.108(2.75) 0.108(2.75) • Terminals: Lead solderable per MIL-STD-750, Method 2026 0.092(2.35) () (2 (3 0.092(2.35) · Polarity: As marked. blank · Weight: 0.049 ounces, 1.38 grams 3→⊢2

#### 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%

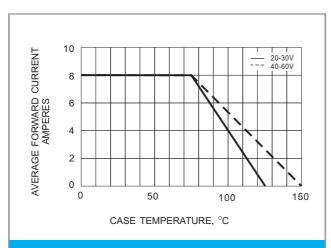
PARAMETER	SYMBOL	SB820D	SB830D	SB840D	SB850D	SB860D	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Current at Tc =75°C	I <sub>F(AV)</sub>	8					А
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load	I <sub>fsm</sub>	150					A
Maximum Forward Voltage at 8.0A	V <sub>F</sub>	0.55 0.75				V	
Maximum DC Reverse Current at Rated T_=25°C DC Blocking Voltage T_=100°C	I <sub>R</sub>	0.2 50					mA
Typical Thermal Resistance	$R_{_{ ext{ extbf{ heta}JC}}}$	3					°C / W
Operating Junction Temperature Range	TJ	-55 to	-55 to +125 -55 to +150				°C
Storage Temperature Range	Тѕтс	-55 to +150					°C

NOTE:

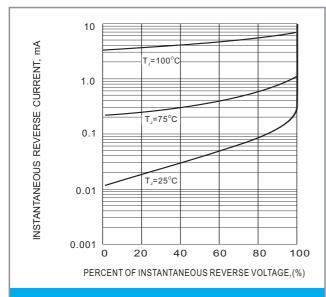
Both Bonding and Chip structure are available.



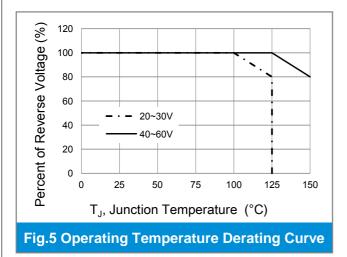
### RATING AND CHARACTERISTIC CURVES

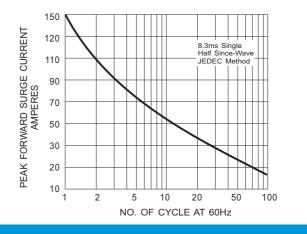


### Fig.1 FORWARD CURRENT DERATING CURVE



#### Fig.3 TYPICAL REVERSE CHARACTERISTIC





#### Fig.2 MAXIMUM NON - REPETITIVE SURGE CURRENT

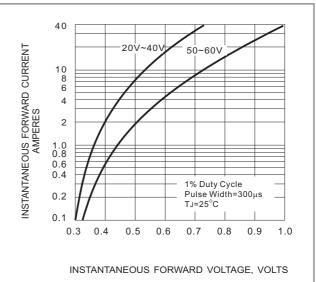
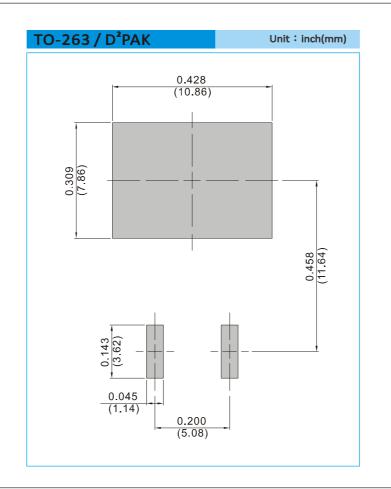


Fig.4 TYPICAL INSTANTANEOUS FORWARD

CHARACTERISTIC



#### MOUNTING PAD LAYOUT

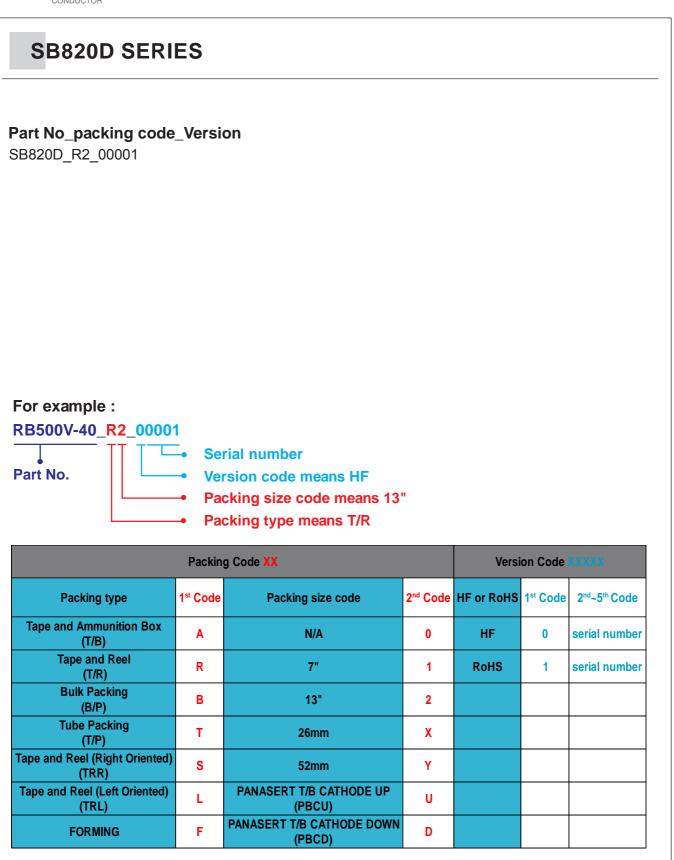


#### **ORDER INFORMATION**

Packing information

T/R - 0.8K per 13" plastic Reel









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