

Unit : inch(mm)

SB520 SERIES

SCHOTTKY BARRIER RECTIFIERS VOLTAGE 20 to 60 Volt CURRENT DO-201AD 5 Ampere FEATURES 0.052(1.3) • Plastic package has Underwriters Laboratory I.0(25.4)MIN Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound. • For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications. 0.375(9.5) 0.285(7.2) • ESD Passed devices : Air mode 15KV, human body mode 8KV • Lead free in comply with EU RoHS 2011/65/EU directives **MECHANICAL DATA** 0.210(5.3) Case: DO-201AD Molded plastic .0(25.4)MIN. • Terminals: Axial leads, solderable per MIL-STD-750, Method 2026 • Polarity: Color band denotes cathode • Weight: 0.04 ounces, 1.142 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	SB520	SB530	SB540	SB550	SB560	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	20	30	40	50	60	V
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 Rectified Current (See Fig 1)	I _{F(AV)}	5					А
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I _{fsm}	150					
Maximum Forward Voltage at 5A (NOTES 3)	V _F	0.55			0.7		V
Maximum DC Reverse Current at Rated DC $T_j=25^{\circ}C$ Blocking Voltage $T_j=100^{\circ}C$	I _R	0.2 50			0.1 50		mA
Typical Thermal Resistance (NOTES 2) (NOTES 1) (NOTES 1)	R _{θJA} R _{θJC} R _{θJL}	50 12 15				°C / W	
Power Dissipation	P _D	5					w
Operating Junction Temperature Range	ТJ	-55 to	+125	-55 to +150		0	°C
Storage Temperature Range	Тѕтс	-55 to +150			°C		

NOTES :

1. Measured at ambient temperature at a distance of 9.5mm from the case

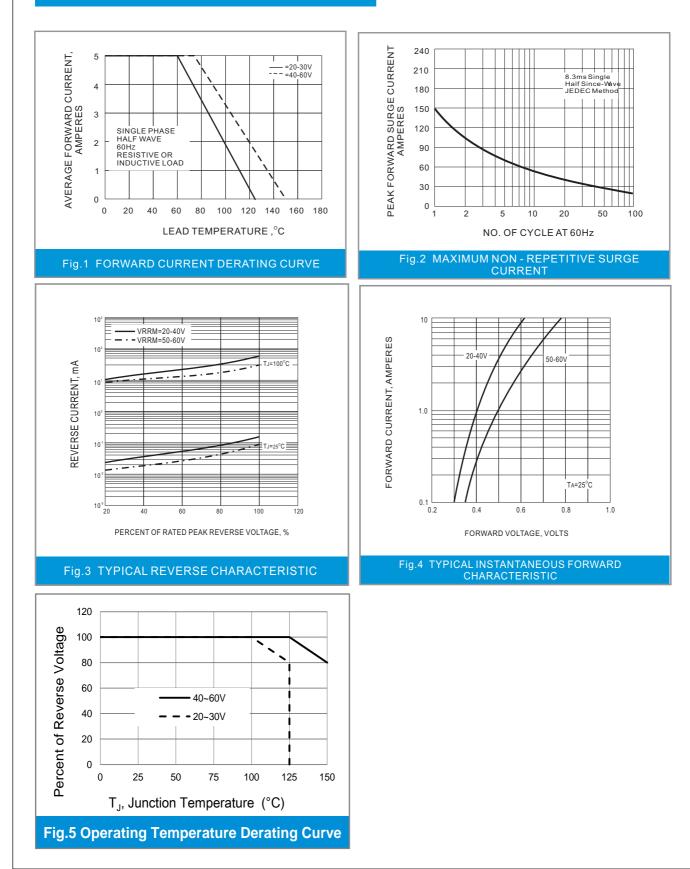
2. Minimum Pad Area

3. Pulse test : 300 μs pulse width, 1% duty cycle



SB520 SERIES

RATING AND CHARACTERISTIC CURVES







Part No_packing code_Version

SB520_AY_00001 SB520_AY_10001 SB520_B0_00001 SB520_B0_10001 SB520_R2_00001 SB520_R2_10001

For example :

RB500V-40_R2_00001 Part No.

-----Serial number

L

Version code means HF

- Packing size code means 13"
- Packing type means T/R

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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