



SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volt CURRENT 1.0 Ampere

FEATURES

Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O utilizing
 Flame Retardant Epoxy Molding Compound.

- For use in low voltage,high frequency inverters ,free wheeling , and polarity protection applications .
- Lead free in compliance with EU RoHS 2.0

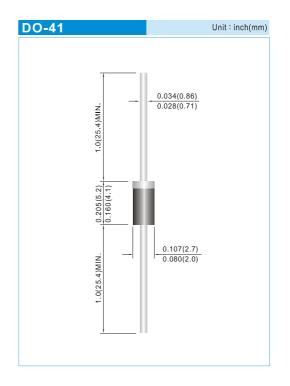
MECHANICAL DATA

• Case: DO-41 Molded plastic

• Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

• Polarity: Color band denotes cathode

• Weight: 0.0118 ounces, 0.336 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	SB120	SB130	SB140	SB150	SB160	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	V
Maximum RMS Voltage		14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length (See Figure1)	I _{F(AV)}	1.0					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30				А	
Maximum Forward Voltage at 1.0A	V _F	0.5		0.7		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_j=25^{\circ}C$ $T_j=100^{\circ}C$		0.2 10		0.1 10		mA	
Typical Thermal Resistance	R _{eJA}	50			°C / W		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to	+125	-55 to +150			°C





RATING AND CHARACTERISTIC CURVES

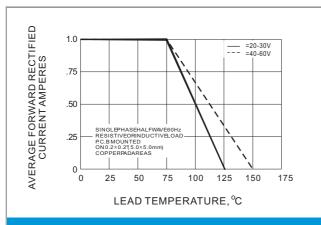


Fig.1 FORWARD CURRENT DERATING CURVE

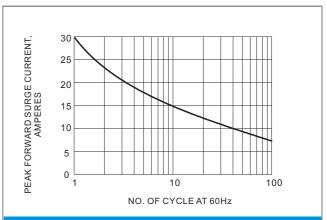


Fig. 2 MAXIMUM NON-REPETITIVEPEAKFORWARD SURGE CURRENT

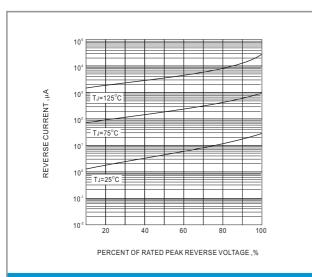


Fig.3 TYPICAL REVERSE CHARACTERISTIC

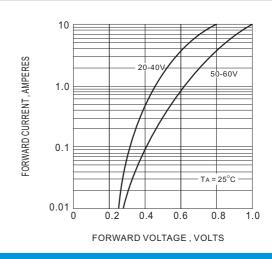


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

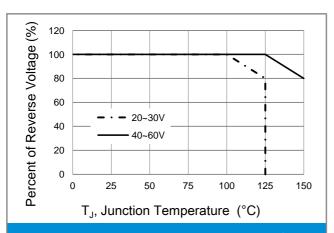


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

SB120_AY_00001

SB120_AY_10001

SB120_B0_00001

SB120_B0_10001

SB120_R2_00001

SB120_R2_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	Х					
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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