SB140L SERIES

LOW VF SCHOTTKY RECTIFIER

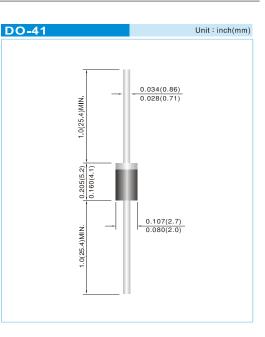
VOLTAGE 40 to 60 Volts CURRENT

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- · Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Low forward voltage drop, low power loss
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750,Method 2026
- · Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0118 ounces, 0.336grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

1 Ampere

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

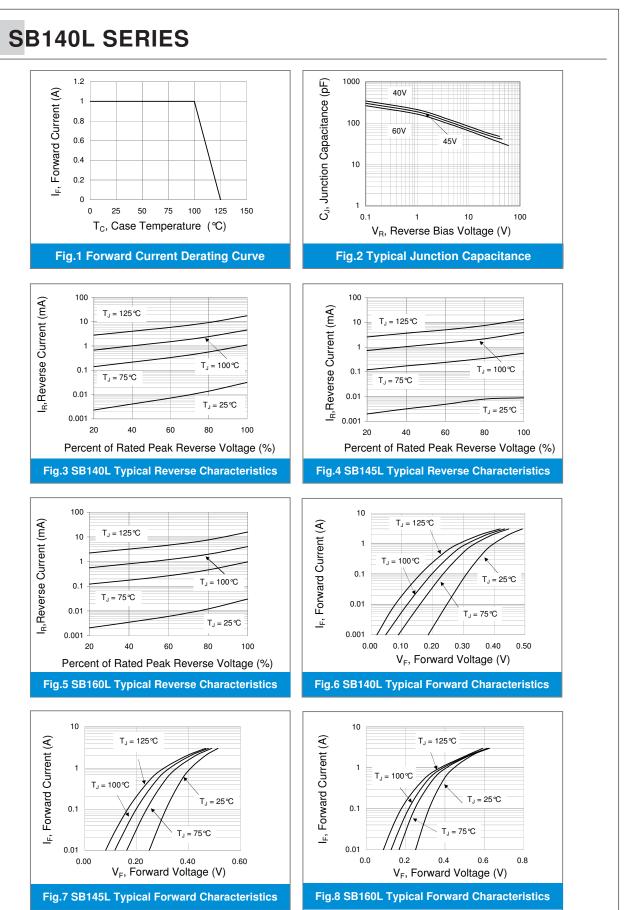
PARAMETER		SYMBOL	SB140L	SB145L	SB160L	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	40	45	60	v
Maximum RMS Voltage		V _{RMS}	28	31.5	42	v
Maximum DC Blocking Voltage		V _{DC}	40	45	60	v
Maximum Average Forward Rectified Current		I _{F(AV)}	1			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	90			A
Typical Forward Voltage at 0.5A		V _F	0.37 0.39		v	
Maximum Forward Voltage at 1.0A		V _F	0.	45	0.50	v
Maximum DC Reverse Current at Rated DC Blocking Voltage	Tj=25°C Tj=100°C	I _R	0.1 10			mA
Typical Thermal Resistance	(Notes 1) (Notes 2)	R _{eja} R _{ejl}	70 25		°C / W	
perating Junction and Storage Temperature Range		T_,T _{stg}	-55 to +125			°C

NOTES :

1. Thermal resistance from junction to ambient 0.375" (9.5 mm) lead length mounted on PCB with min. pad layout.

2. Thermal resistance from junction to lead at 0.375" (9.5 mm) lead length with both leads attached to heatsinks.





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