

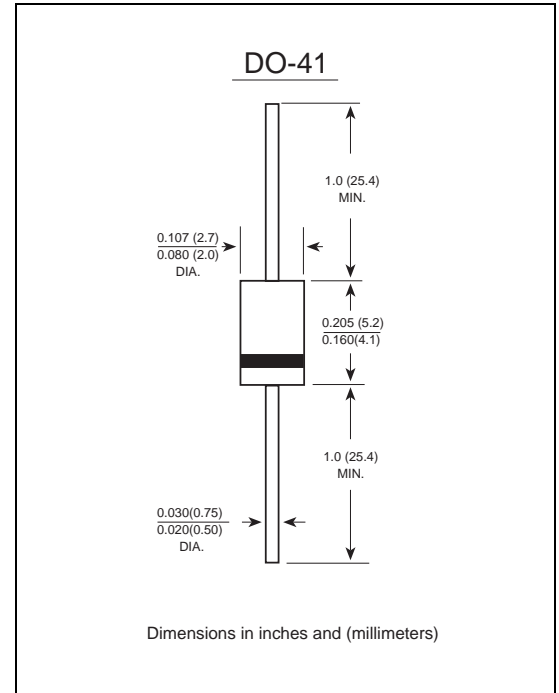
SB120L/SR120L~SB1100L/SR1100L
1.0Amp Schottky Barrier Rectifiers

Features

- ◆ Low forward voltage drop
- ◆ Low power loss,high efficiency
- ◆ Construction utilizes void-free molded plastic technique
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C/10 seconds,0.375"(9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-41 molded plastic body
 Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Mounting Position: Any
 Weight : 0.012 ounce, 0.33 grams



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SB120L SR120L	SB140L SR140L	SB160L SR160L	SB1100L SR1100L	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	100	VOLTS
Maximum RMS voltage	V_{RMS}	14	28	42	70	VOLTS
Maximum DC blocking voltage	V_{DC}	20	40	60	100	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	$I_{(AV)}$	1.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0				Amps
Maximum instantaneous forward voltage at 1.0A	V_F	$T_A=25^{\circ}C$ 0.40	0.45	0.53	0.70	Volts
		$T_A=125^{\circ}C$ 0.35	0.40	0.50	0.62	
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^{\circ}C$ 1.0	50.0		0.5	mA
		$T_A=125^{\circ}C$ 50.0			20.0	
Typical junction capacitance (NOTE 1)	C_J	100				pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	65				°C/W
Operating junction temperature range	T_J	-50 to +125				°C

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted