

SB120 THRU SB1100 1.0AMP. Schottky Barrier Rectifier

VOLTAGE:20 TO 100V

CURRENT:1.0A



Specification Features:

- Case: Epoxy, Molded
- Weight: 0.4Gram (Approximately)
- High current capability,Low Forward Voltage Drop
- High surge current capability
- Finish: All External Surfaces Corrosion Resistant And Terminal Leads Are Readily Solderable
- Lead And Mounting Surface Temperature For Soldering Purposed:
260°C Max. For 10 Seconds 1/16 Inch From Case
- RoHS Compliant
- Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM



SB1XX : Device Name SB120~ SB1100
KEL : KEL Logo

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

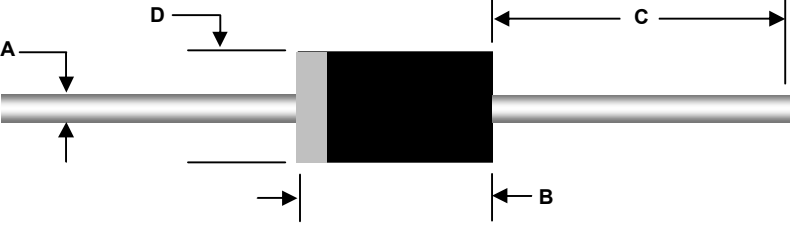
Parameter	Symbol	SB 120	SB 130	SB 140	SB 150	SB 160	SB 180	SB 1100	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum DC Blocking Voltage	V_R	20	30	40	50	60	80	100	V
Maximum Average Forward Rectifier Current. (0.375" Lead Length @ $T_A=75^\circ\text{C}$)	$I_{F(AV)}$	1.0							A
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	I_{FSM}	30							A
Operating Junction Temperature	T_J	100					150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +100					-55 to +150		$^\circ\text{C}$
Thermal Resistance (Junction to Ambient) (Note 1)	$R_{\theta JA}$	80							$^\circ\text{C/W}$

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	SB 120	SB 130	SB 140	SB 150	SB 160	SB 180	SB 1100	Units
Maximum D.C Reverse Current At Rated D.C Blocking Voltage @ $T_A=25^\circ\text{C}$ @ $T_A=100^\circ\text{C}$	I_R	1.0				10.0			mA
Forward Voltage @1A	V_F	0.500			0.700		0.850		V
Total Capacitance @ $V_R=4\text{V}$, $f=1\text{MHz}$	C_T	110							pF

NOTE: (1) Thermal resistance from junction to ambient at 0.375" lead length, vertical P.C. board mounted

Package Outline

Package	Case Outline				
DO-41					
	DIM	DO-41			
		Millimeters		Inches	
		Min	Max	Min	Max
	A	0.70	0.86	0.028	0.034
	B	4.20	5.20	0.166	0.205
C	25.40	---	1.000	---	
D	2.00	2.70	0.080	0.107	



NOTICE

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