KEL®

Preliminary Data Sheet

SB220 THRU SB2100
2.0AMP. Schottky Barrier Rectifier

AXIAL LEAD
DO-15

VOLTAGE:20 TO 100V **CURRENT:2.0A**

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℃ Max. For 10 Seconds 1/16 Inch From Case
- RoHS Compliant
- Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM

SB2XX : Device Name SB220~ SB2100
KEL : KEL Logo

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Parameter	Symbol	SB 220	SB 230	SB 240	SB 250	SB 260	SB 280	SB 2100	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℃)	$I_{F(AV)}$	2.0							A
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	I_{FSM}	50							A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125							°C
Thermal Resistance (Junction to Ambient) (Note 1)	$R_{\theta JA}$	45							°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Symbol	SB 220	SB 230	SB 240	SB 250	SB 260	SB 280	SB 2100	Units
Maximum D.C Reverse Current At Rated D.C Blocking Voltage @ TA=25℃ @ TA=100℃	I_R	1.0 10.0							mA
Forward Voltage @2A	V_F	0.500			0.700		0.850		V
Total Capacitance @VR=4V, f=1MHz	C_T	170							pF

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

Package Outline

Package	Case Outline

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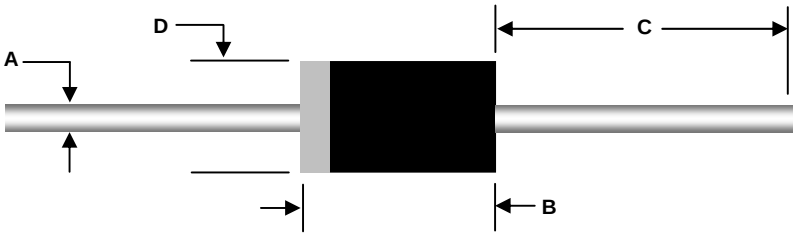

DIM	DO-15			
	Millimeters		Inches	
	Min	Max	Min	Max
A	0.72	0.90	0.028	0.034
B	5.80	7.60	0.230	0.300
C	25.40	---	1.000	---
D	2.60	3.60	0.104	0.140

This datasheet presents technical data of Tak Cheong's Silicon Rectifier Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website http://www.takcheong.com.

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