

Preliminary Data Sheet

SB520 THRU SB5100 5.0AMP. Schottky Barrier Rectifier

VOLTAGE:20 TO 100V CURRENT:5.0A

AXIAL LEAD DO-201AD

Specification Features:

Case: Epoxy, Molded

Weight:1.2Gram (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:

RoHS Compliant

Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM



SB5XX : Device Name SB520~ SB5100

KEL : KEL Logo

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Absolute Maximum Ratings I _A = 25°C unless otherwise noted									
Parameter	Symbol	SB 520	SB 530	SB 540	SB 550	SB 560	SB 580	SB 5100	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°C)	I _{F(AV)}	5.0							Α
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	I _{FSM}	150							А
Operating Junction Temperature	TJ	100 150						°C	
Storage Temperature Range	T _{STG}	-55 to +100 -55 to +150						°C	
Thermal Resistance (Note 1) (Junction to Ambient)	R _{eJA}	25						°C/W	

Electrical Characteristics T_A = 25°C unless otherwise noted

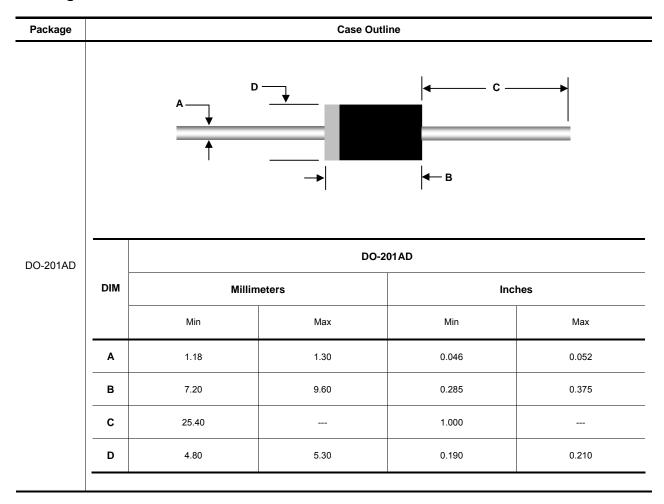
Parameter	Symbol	SB 520	SB 530	SB 540	SB 550	SB 560	SB 580	SB 5100	Units
Maximum D.C Reverse Current @ TA=25°C At Rated D.C Blocking Voltage @ TA=100°C	I _R	1 50							mA
Forward Voltage @5A	V _F	0.550			0.700		0.850		V
Total Capacitance @VR=4V, f=1MHz	C _T		500		380				pF

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

Number: DB-092 Apr.2010 / B



Package Outline





NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http://www.takcheong.com, or consult your nearest Tak Cheong's sales office for further assistance.

Number: DB-111 April 29, 2008 / A