2A SURFACE MOUNT SCHOTTKY BRIDGE

FEATURES:

Reverse Voltage - 100 V

Forward Current - 2 A

High Surge Current Capability

Designed for Surface Mount Application

MECHANICAL DATA

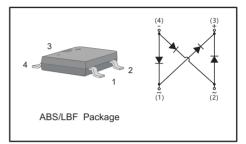
· Case: ABS/LBF

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 88mg 0.0031oz

PINNING

PIN	DESCRIPTION	
1	Input Pin (~)	
2	Input Pin (~)	
3	Output Anode (+)	
4	Output Cathode (-)	



Maximum Ratings and Electrical characteristics

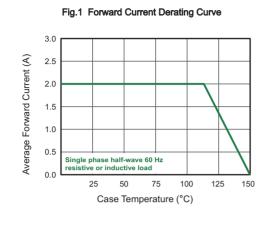
Ratings at 25 °C ambient temperature unless otherwise specified.

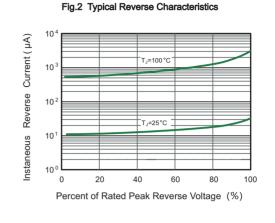
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

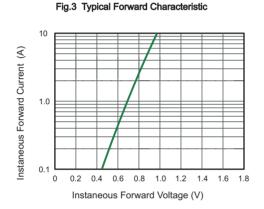
Parameter	Symbols	TB210SMG	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current @ Fig.1	I _{F(AV)}	2.0	А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50	А
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100	А
I ² t Rating for fusing (3ms≤t≤8.3ms)	l²t	10.3	A ² S
Max Instantaneous Forward Voltage at 2 A	V _F	0.85	V
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =100°C	I _R	0.1 5	mA
Typical Junction Capacitance (1)	Cj	73	pF
Typical Thermal Resistance (2)	$R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL}$	40 8 20	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

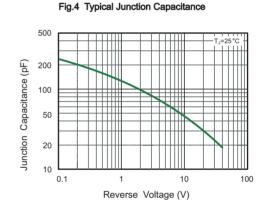
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

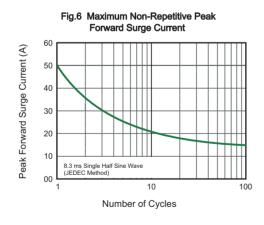
⁽²⁾ Mounted on glass epoxy PC board with $4\times1.5"\times1.5"$ (3.81×3.81 cm) copper pad.







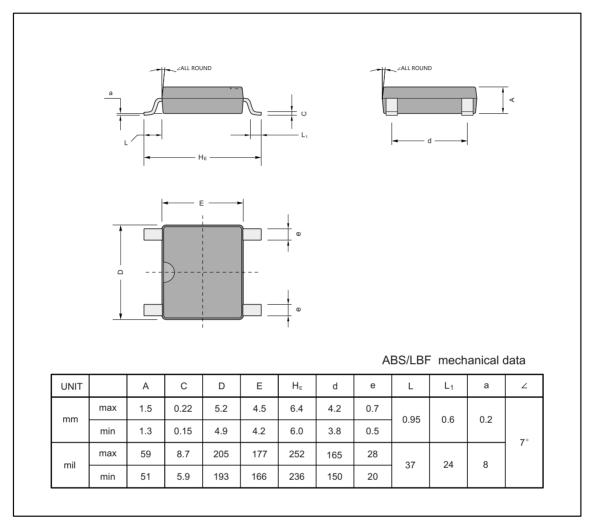




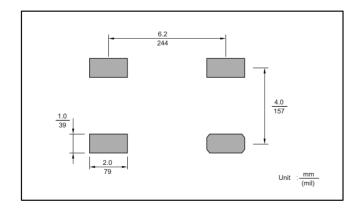
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



The recommended mounting pad size



Marking

Type number	Marking code
TB210SMG	TB210SG

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