Elektronische Bauelemente

TB151S ~ TB157S

Voltage 50V ~ 1000V

1.5 Amp Silicon Bridge Rectifiers

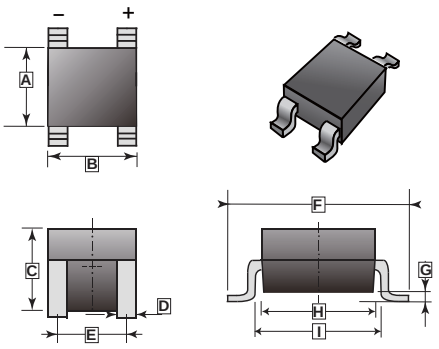
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- Glass passivated chip junction
- High surge overload rating: 30A peak
- Saves space on printed circuit boards
- Plastic material has U/L flammability classification94V-O
- High temperature soldering guaranteed:
- 260°C/10 seconds at 5 lbs. (2.3kg) tension

TBS



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.25	4.55	F	6.30	6.70
B	4.85	5.15	G	0.05	0.15
C	1.15	1.45	H	4.25	4.55
D	0.60	0.70	I	0.50	0.70
E	3.90	4.10			

MECHANICAL DATA

- Case: Molded plastic body over passivated junctions
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on body Dimensions in inches and (millimeters)
- Mounting Position: Any
- Weight: 0.0078 ounce, 0.22 gram

PACKAGE INFORMATION

Package	MPQ	Leader Size
TBS	4K	13 inch

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number							Unit
			TB 151S	TB 152S	TB 153S	TB 154S	TB 155S	TB 156S	TB 157S	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		V_{RMS}	35	70	140	280	350	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=25°C		$I_{(AV)}$	1.5							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		I_{FSM}	40							A
Maximum Forward Voltage @ 1.5A		V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25°C	I_R	5							μA
	T_A=100°C		0.5							
Operating and Storage temperature range		T_J,T_{STG}	-55~150							°C