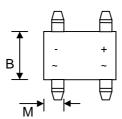
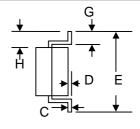


0.5A MINI SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-O





Mechanical Data

Case: Molded Plastic

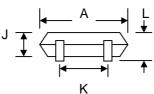
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Case

Weight: 0.22 grams (approx.)

Mounting Position: Any

Marking: Type Number



MB-S						
Dim	Min Max					
Α	4.50	4.90				
В	3.80	4.20				
С	0.006	0.35				
D	_	0.20				
Е	_	7.0				
O	0.70	1.10				
H	1.30	1.70				
۲	2.30	2.70				
K	2.30	2.70				
L	_	3.00				
M	0.50	0.80				
All Dimensions in mm						

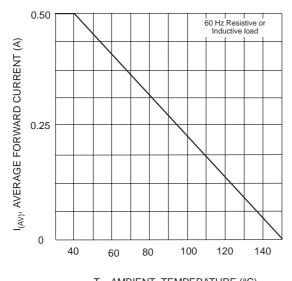
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

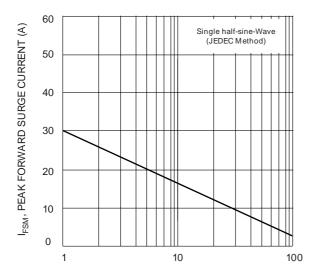
Characteristic		Symbol	B1S	B2S	B4S	B6S	B8S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	100	200	400	600	800	٧
RMS Reverse Voltage		VR(RMS)	70	140	280	420	560	V
Average Rectified Output Current @T _A = 40°C		lo	0.5				А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30			А		
I ² t Rating for Fusing (t < 8.35ms)		l ² t	10				A ² s	
Forward Voltage per element @I _F = 0.5A		VFM	1.0					V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$		IRM	5.0 500			μА		
Typical Junction Capacitance (per leg) (Note 1)		Cj	25			pF		
Typical Thermal Resistance (per leg) (Note 2)		$R_{ heta}$ JA	85			K/W		
Operating and Storage Temperature Range		Тј, Тѕтс	-55 to +150			°C		

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

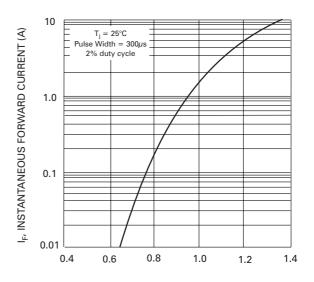
2. Thermal resistance junction to ambient mounted on PC board with 13mm² copper pads.



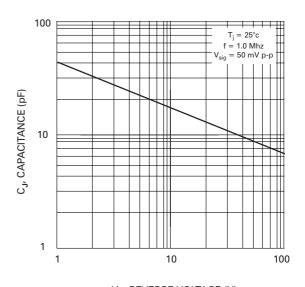
T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Output Current Derating Curve



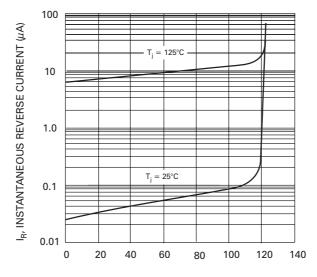
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typ Forward Characteristics (per element)



V_R, REVERSE VOLTAGE (V)
Fig. 4 Typ Junction Capacitance (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typ Reverse Characteristics (per element)

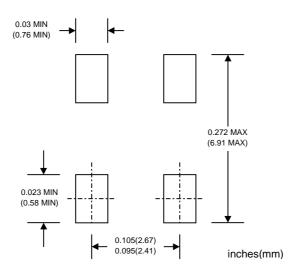
ORDERING INFORMATION

Dundret No. 6	Daalaana Tona	Obligation Occasility			
Product No.◆	Package Type	Shipping Quantity			
B1S-T3	Mini Bridge SMD	3000/Tape & Reel			
B2S-T3	Mini Bridge SMD	3000/Tape & Reel			
B4S-T3	Mini Bridge SMD	3000/Tape & Reel			
B6S-T3	Mini Bridge SMD	3000/Tape & Reel			
B8S-T3	Mini Bridge SMD	3000/Tape & Reel			

[◆]T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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