1A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

· Glass Passivated Chip Junction

• Reverse Voltage - 50 to 1000 V

• Forward Current - 1.0 A

• High Surge Current Capability

• Designed for Surface Mount Application

MECHANICAL DATA

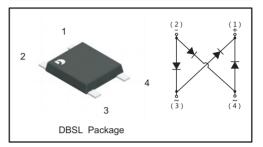
· Case: DBSL

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

Approx. Weight: 0.234g / 0.00825oz

PINNING

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



Maximum Ratings and Electrical characteristics

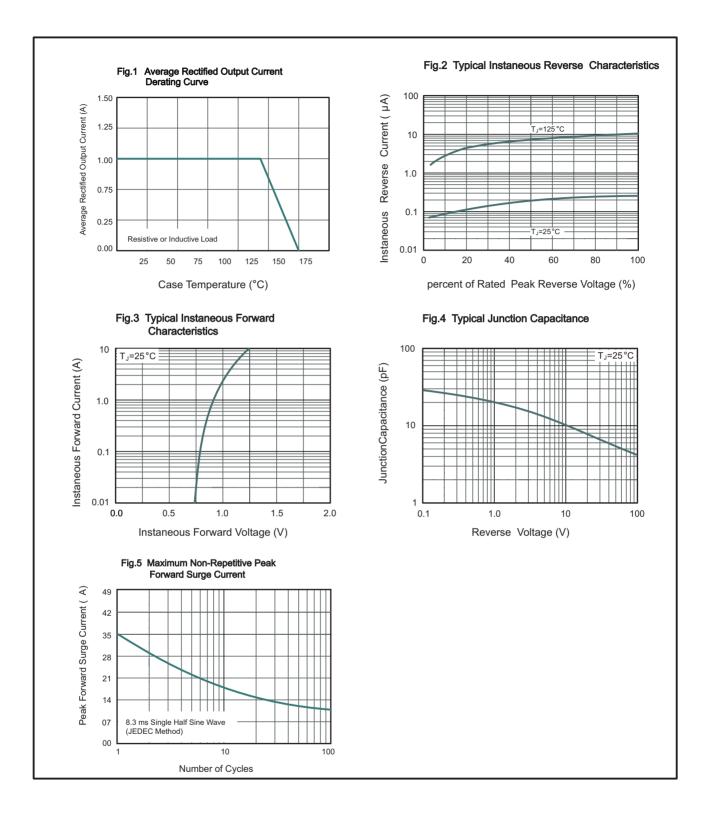
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	DBS101L	DBS102L	DBS103L	DBS104L	DBS105L	DBS106L	DBS107L	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @Fig. 1	Io	1.0							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	35							А
Peak Forward Surge Current 1.0 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	70						А	
I ² t Rating for Fusing (3ms≤t < 8. 3ms)	l ² t	5.1						A ² S	
Maximum Forward Voltage at 1.0 A	V _F	1.1						V	
Maximum DC Reverse Current @T _A =25 °C at Rated DC Blocking Voltage @T _A =125 °C	I _R	5 100						μA	
Typical Junction Capacitance (Note1)	C _j	14						pF	
Typical Thermal Resistance(Note2)	$egin{array}{c} {\sf R}_{\scriptscriptstyle ext{ ilde J}{\sf A}} \ {\sf R}_{\scriptscriptstyle ext{ ilde J}{\sf L}} \end{array}$	35 8 20						°C/W	
Operating and Storage Temperature Range	Tj, T _{stg}	-55 ~ +150						°C	

^{1.} Measured at 1MHz and applied reverse voltage of 4 V D.C.

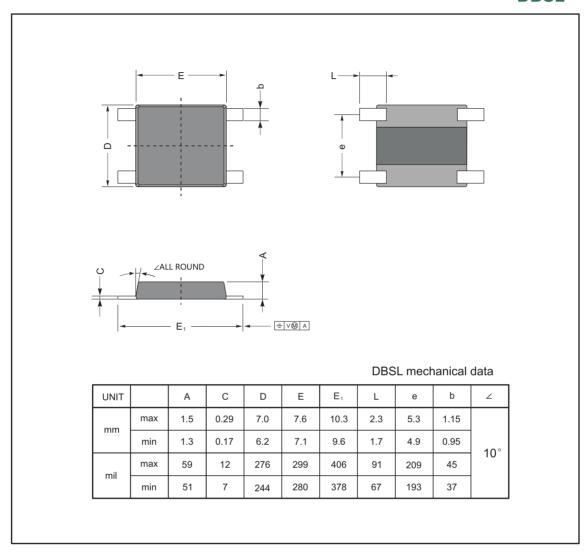
^{2.} Mounted on glass epoxy PC board with $4\times1.5"\times1.5"$ (3.81×3.81 cm) copper pad.



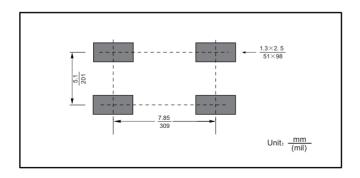
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

DBSL



The recommended mounting pad size



Marking

Type number	Marking code				
DBS101L	DBS101				
DBS102L	DBS102				
DBS103L	DBS103				
DBS104L	DBS104				
DBS105L	DBS105				
DBS106L	DBS106				
DBS107L	DBS107				

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