# 4A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **FEATURES:**

- · Glass Passivated Chip Junction
- Reverse Voltage 1000 V
- Forward Current 4.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

#### **MECHANICAL DATA**

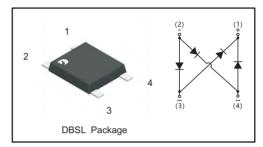
· Case: DBSL

• 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	4 Input Pin (~)			



#### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

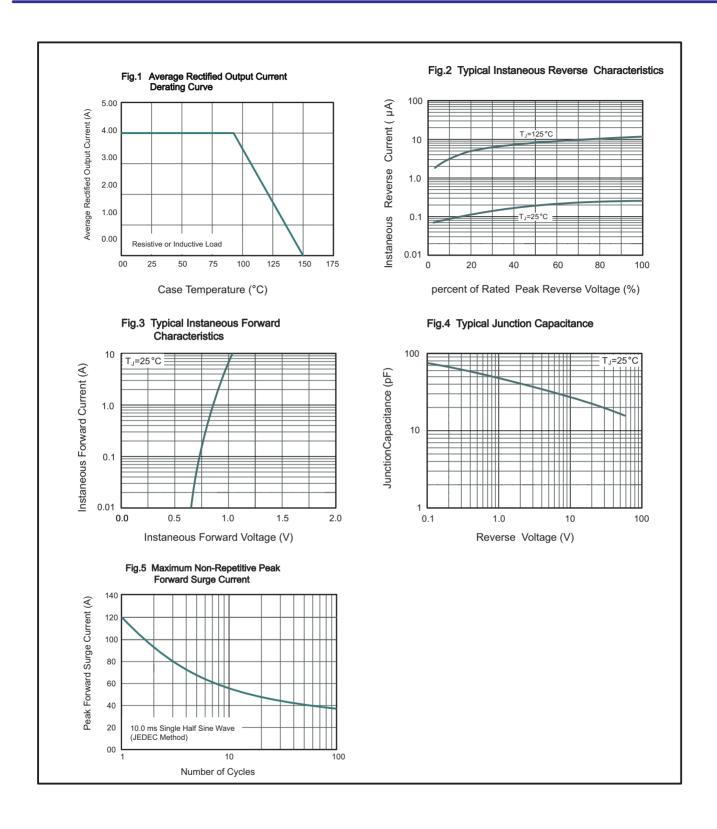
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	DBS401LG	DBS402LG	DBS403LG	DBS404LG	DBS405LG	DBS406LG	DBS407LG	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	٧
Average Rectified Output Current @Fig. 1	Io	4.0						Α	
Peak Forward Surge Current 10.0 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	120						А	
Peak Forward Surge Current 1.0 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	240						А	
I <sup>2</sup> t Rating for Fusing (3ms≤t < 10ms)	I <sup>2</sup> t	72						A <sup>2</sup> S	
Maximum Forward Voltage at 4.0 A	V <sub>F</sub>				1.1				V
Maximum DC Reverse Current @T <sub>A</sub> =25 °C at Rated DC Blocking Voltage @T <sub>A</sub> =125 °C	I <sub>R</sub>	5 100						μΑ	
Typical Junction Capacitance (Note1)		35						pF	
Typical Thermal Resistance (Note2)	$R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL}$	35 8 20						°C/W	
Operating and Storage Temperature Range	$T_j$ , $T_{stg}$	-55 ~ +150							°C

<sup>1.</sup> Measured at 1MHz and applied reverse voltage of 4 V D.C.

<sup>2.</sup> Mounted on glass epoxy PC board with 4×1.5" ×1.5" (3.81 ×3.81 cm) copper pad.

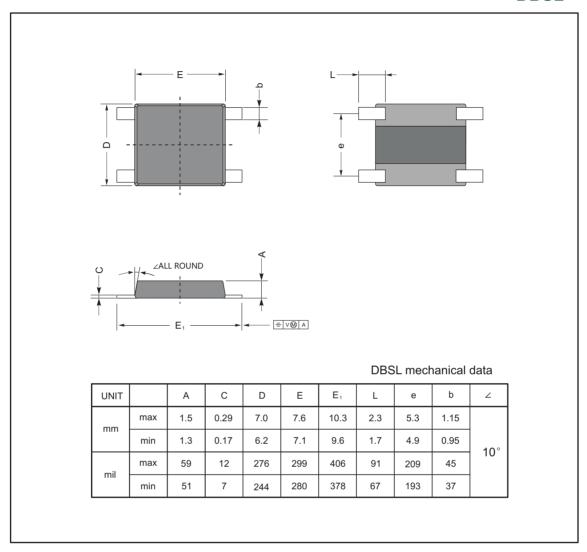
# DBS401LG THRU DBS407LG



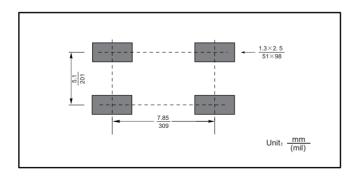
## PACKAGE OUTLINE

## Plastic surface mounted package; 4 leads

## **DBSL**



#### The recommended mounting pad size



#### Marking

Type number	Marking code				
DBS401LG	DBS401G				
DBS402LG	DBS402G				
DBS403LG	DBS403G				
DBS404LG	DBS404G				
DBS405LG	DBS405G				
DBS406LG	DBS406G				
DBS407LG	DBS407G				

## DBS401LG THRU DBS407LG

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