SEMICONDUCTOR

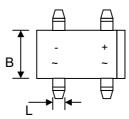
1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

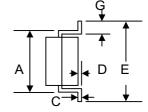
Data Sheet 1389, Rev.B

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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
- UL Recognized File # E223064
- Green Products in Compliance with the RoHS Directive





Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.38 grams (approx.)
- *Low profile models (J = 2.20~2.50mm) are available.
- Mounting Position: Any
- Marking: Type Number
- Please consult factory.

5										
Dim	Min	Max	Min	Max						
Α	7.40	7.90	0.291	0.311						
В	6.20	6.50	0.244	0.256						
С	0.009	0.25	0.0004	0.001						
D	0.076	0.33	0.003	0.013						
Е	_	10.40	_	0.409						
G	1.02	1.53	0.040	0.060						
Н	8.13	8.51	0.320	0.321						
J*	2.20	2.50	0.087	0.098						
K	5.0	5.20	0.197	0.205						
L	1.0	1.20	0.039	0.047						
	In mm		In inch							

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

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

Characteristic	Symbol	DF 150S-G	DF 151S-G	DF 152S-G	DF 154S-G	DF 156S-G	DF 158S-G	DF 1510S-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current @T _A = 40°C	lo	1.5						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50						Α	
Forward Voltage per element @I _F = 1.5A	VFM	1.1						V	
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	lгм	10 500						μΑ	
Typical Junction Capacitance per element (Note 1)	Cj	25						pF	
Typical Thermal Resistance (Note 2)	R_{θ} JA	74						K/W	
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150						ů	

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 5.0mm² (0.03mm thick) land areas.

0.5

0

40

60

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Data Sheet 1389, Rev.B

2.0 60 Hz Resistive or Inductive load I_O, AVERAGE FORWARD CURRENT (A) 1.5 1.0

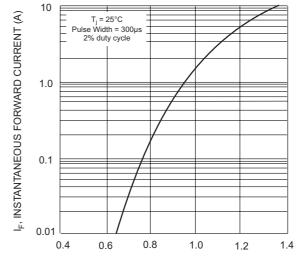
T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Output Current Derating Curve

80

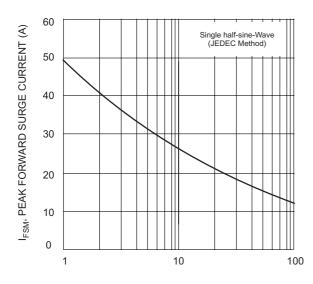
100

120

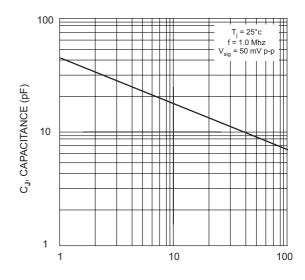
140



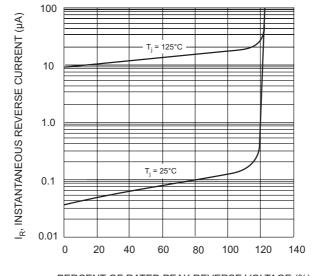
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typ Forward Characteristics (per element)



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



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)

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Data Sheet 1389, Rev.B

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