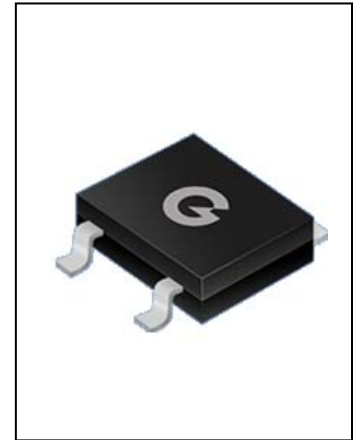


## SILICON BRIDGE RECTIFIERS

## DB151S--DB157S

### FEATURES

- Rating to 1000V PRVP
- Surge overload rating to 40 Amperes peak
- Glass passivated chip junctions
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Lead: silver plated copper, solderde plated
- Plastic material has UL flammability classification94V-O



### Maximum Ratings (@T<sub>A</sub> = 25°C unless otherwise specified)

Characteristic	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Reverse Voltage	V <sub>RMS</sub>	35	75	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward Output current @T <sub>A</sub> =40°C	I <sub>F(AV)</sub>	1.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I <sub>FSM</sub>	40							A

### Thermal Characteristics

Characteristic	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Operating junction temperature range	T <sub>J</sub>	-55 -- +150							°C
Storage temperature range	T <sub>STG</sub>	-55 -- +150							°C

### Electrical Characteristics (@T<sub>A</sub> = 25°C unless otherwise specified)

Characteristic	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Maximum instantaneous forward voltage at 1.5A	V <sub>F</sub>	1.1							V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	10							μ A
		1.0							m A



**SILICON BRIDGE RECTIFIERS**

**DB151S--DB157S**

**PACKAGE OUTLINE DIMENSIONS**

DFS		
Dim	Min	Max
A	8.20	8.60
B	6.10	6.50
C	2.35	2.65
D	9.80	10.20
E	0.15	0.35
F	0.90	1.50
G	0.20MAX	
H	2.50	2.80
I	1.00	1.40
K	4.80	5.20
All Dimensions in mm		

**PACKAGE INFORMATION**

Device	Package	Shipping
DB151S--DB157S	DFS	50unit/pipe



# SILICON BRIDGE RECTIFIERS

# DB151S--DB157S

FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

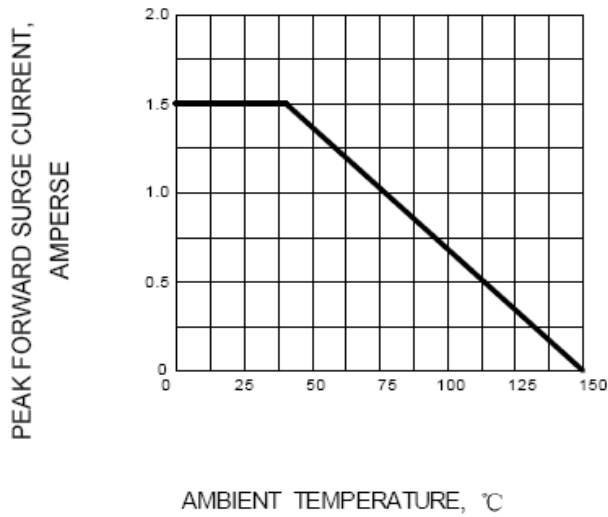


FIG.2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

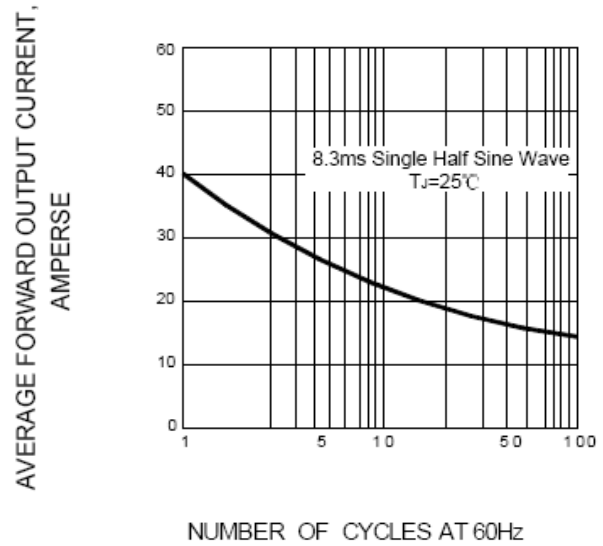


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

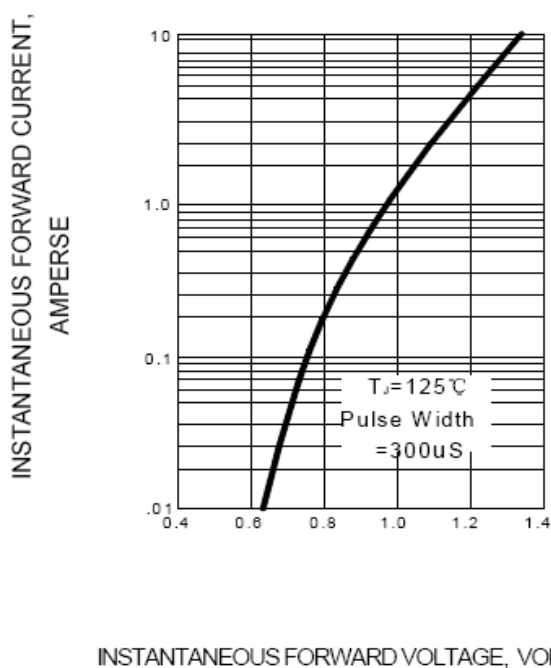


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

