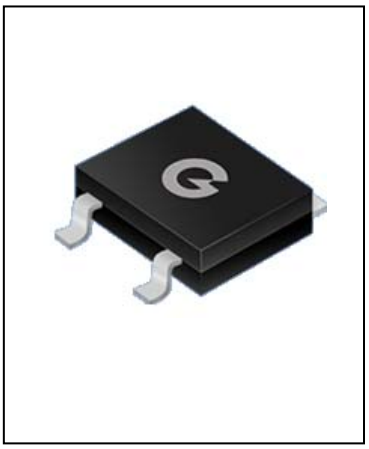
SILICON BRIDGE RECTIFIERS *DB101S--DB107S*

FEATURES

Lead-free



- Rating to 1000V PRVP
- Surge overload rating to 30 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Glass passivated chip junctions
- Plastic material has UL flammability classification94V-O

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	75	140	280	420	560	700	V
DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward Output current @T_A=40℃	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	30							A

Thermal Characteristics

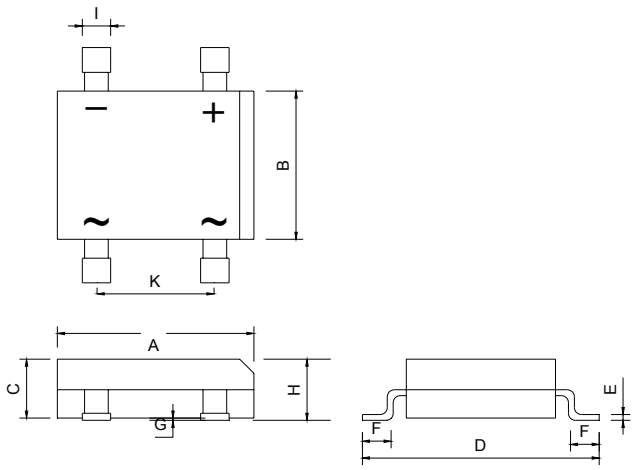
Characteristic	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Typical thermal resistance per leg	$R_{\Theta JA}$ $R_{\Theta JC}$ $R_{\theta JL}$	66 30 28							℃/W
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Maximum instantaneous forward voltage at 1.0 A	V_F	1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	10 1.0							μ A mA

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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
DB101S--DB107S	DFS	50unit/pipe

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FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

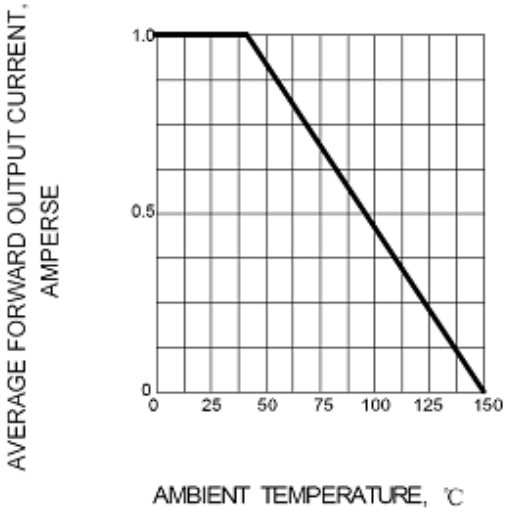


FIG.2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

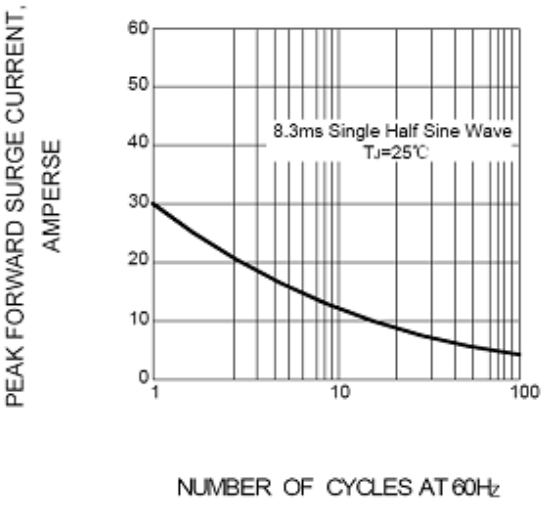


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

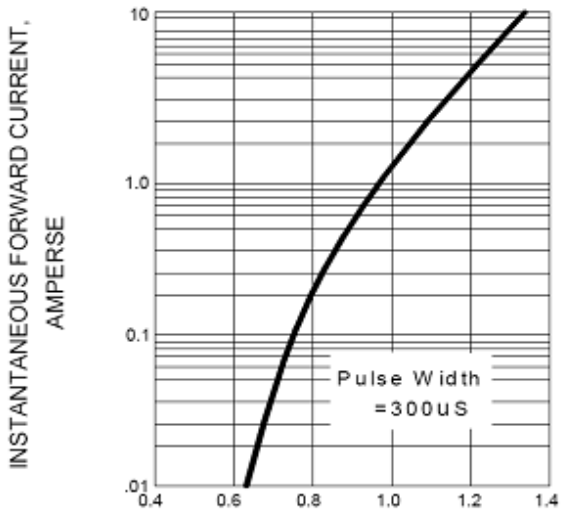


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

