SILICON BRIDGE RECTIFIERS *DB101--DB107*

FEATURES

- 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

Lead-free



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

Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	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

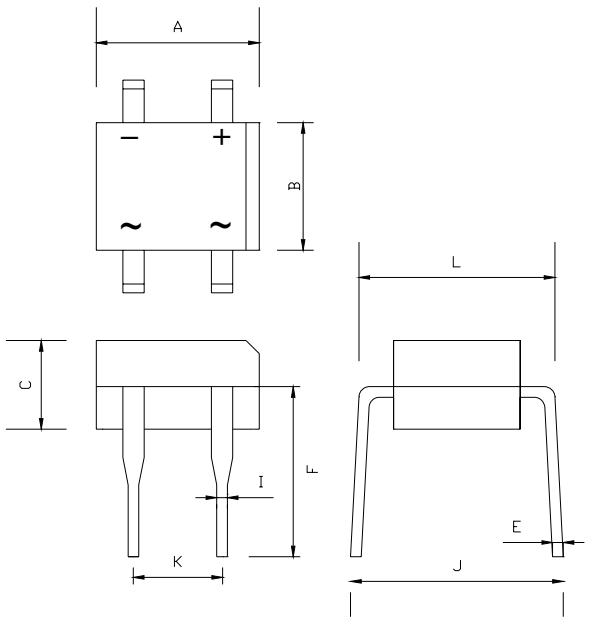
Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

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

Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS
Maximum instantaneous forward voltage at 1.0 A	V_F	1.1							V
Maximum reverse current @T_A=25℃	I_R	10.0							μ A
at rated DC blocking voltage @T_A=100℃		1.0							mA

SILICON BRIDGE RECTIFIERS *DB101--DB107*

PACKAGE OUTLINE DIMENSIONS



DFM		
Dim	Min	Max
A	8.20	8.60
B	6.10	6.50
C	2.35	2.65
E	0.15	0.35
F	5.40	6.00
I	0.35	0.65
J	8.40	9.00
K	4.80	5.20
L	7.65	8.15
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
DB101--DB107	DFM	50unit/pipe

SILICON BRIDGE RECTIFIERS *DB101--DB107*

FIG.1 -- TYPICAL FORWARD CURRENT DERATING CURVE

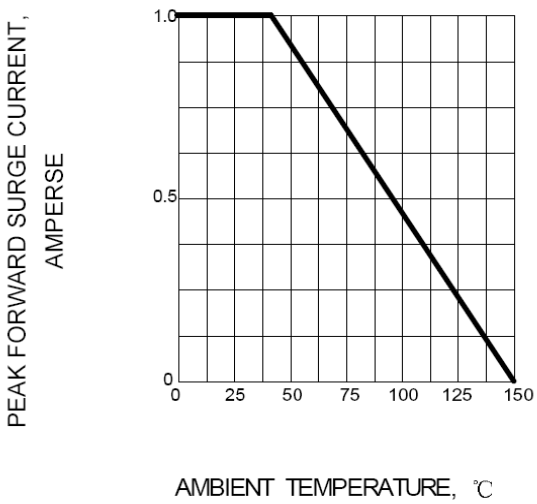


FIG.2 -- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

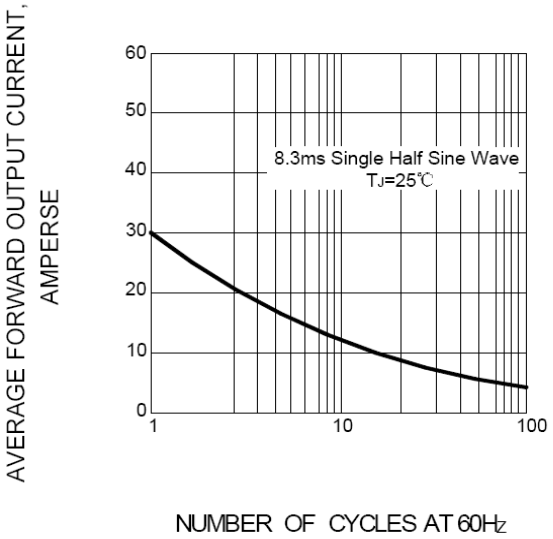


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

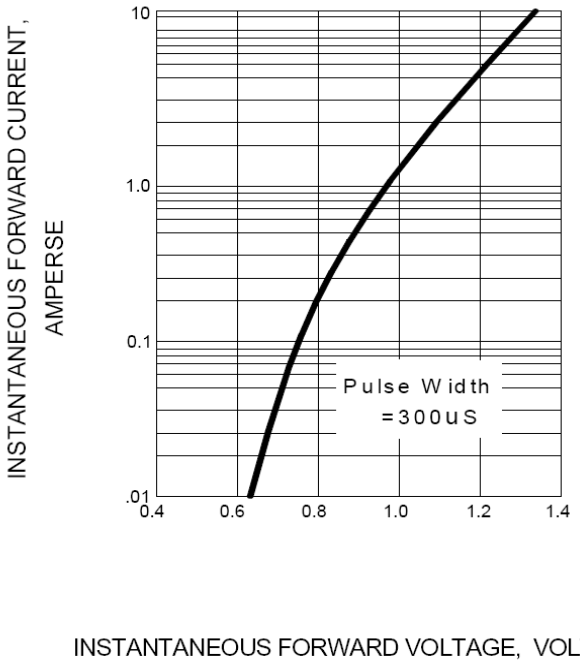


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC

