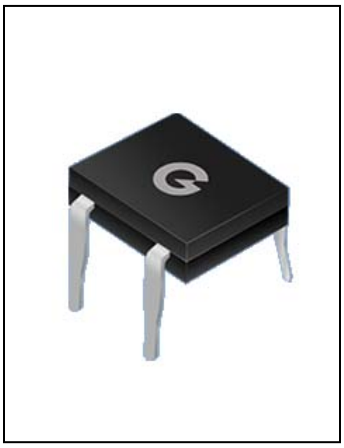
SILICON BRIDGE RECTIFIERS

DB151--DB157

FEATURES

Lead-free

- 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(@TA = 25°C unless otherwise specified)

Characteristic	Symbol	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Reverse Voltage	V_{RMS}	35	75	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward Output current @T_A=25℃	$I_{F(AV)}$	1.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	40							A

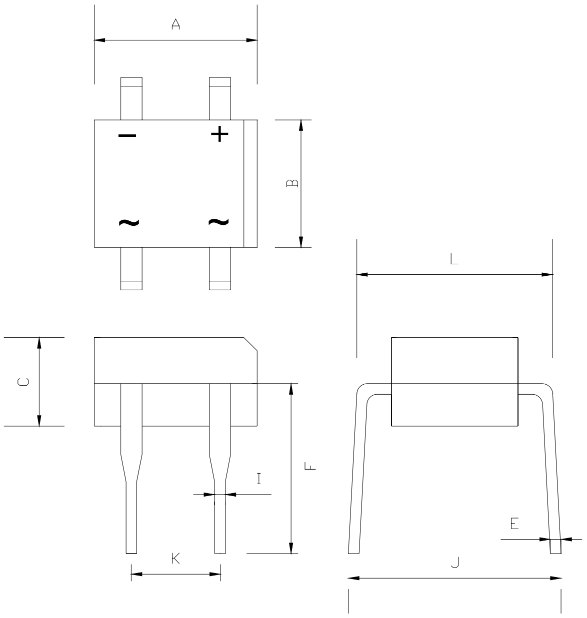
Thermal Characteristics

Characteristic	Symbol	DB151	DB152	DB153	DB154	DB155	DB156	DB157	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	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum instantaneous forward voltage at 1.5A	V_F	1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 0.5							μ A m A

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
DB151--DB157	DFM	50unit/pipe

FIG.1 -- PEAK FORWARD SURGE CURRENT

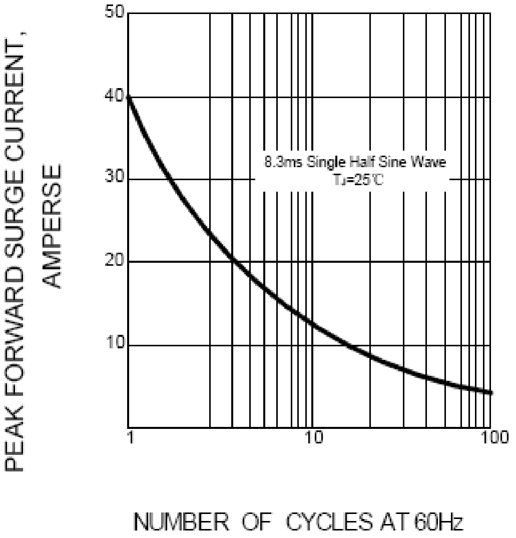


FIG.2 -- FORWARD DERATING CURVE

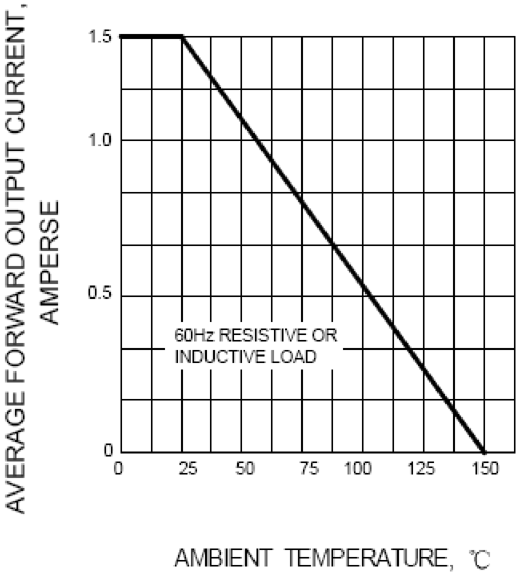


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

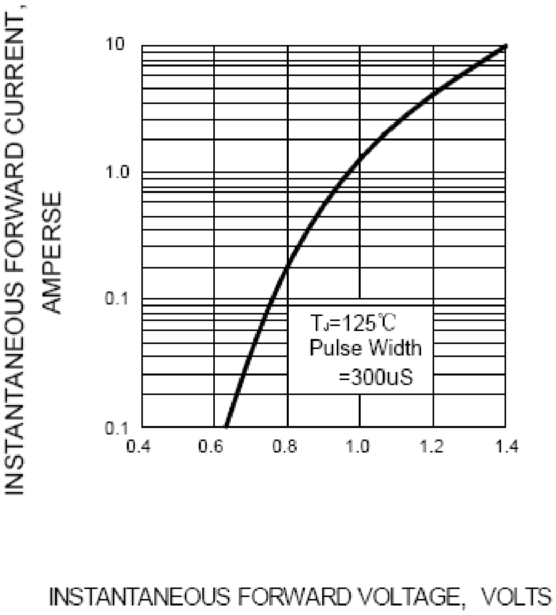


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC