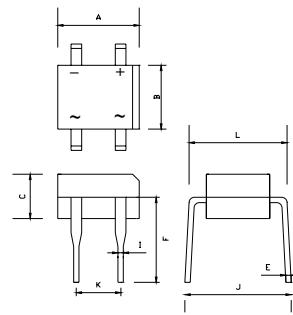




### FEATURES

- 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



DB-1		
Dim	Min	Max
A	7.80	8.50
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		

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

Characteristic	Symbol	DB151	DB152	DB153	DB154	DB155	DB156	DB157	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> =25°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>	50							A
I <sup>2</sup> t Rating for fusing @T <sub>j</sub> =25°C	I <sup>2</sup> t	10							A <sup>2</sup> S

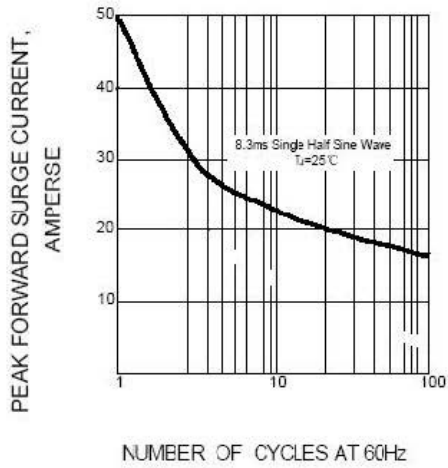
### Thermal Characteristics

Characteristic	Symbol	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Typical thermal resistance per leg	R <sub>θJA</sub>	70							°C/W
	R <sub>θJC</sub>	31							
	R <sub>θJL</sub>	29							
Operating junction temperature range	T <sub>J</sub>	-55 -- +150							°C
Storage temperature range	T <sub>STG</sub>	-55 -- +150							°C

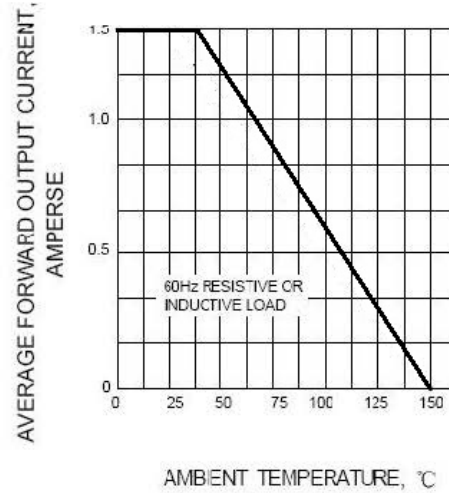
### Electrical Characteristics (@T<sub>A</sub> = 25°C unless otherwise specified)

Characteristic	Symbol	DB151	DB152	DB153	DB154	DB155	DB156	DB157	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>	5.0							μA
		0.5							mA

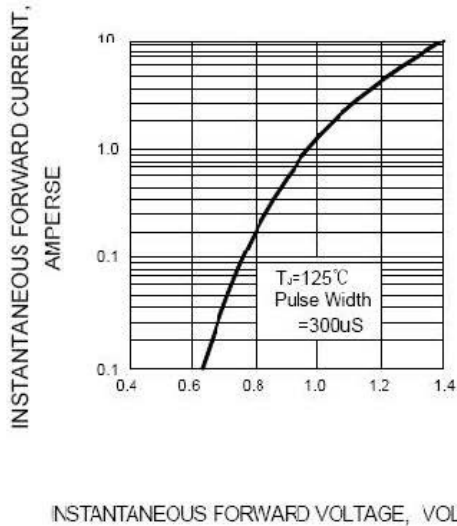
**FIG.1 -- PEAK FORWARD SURGE CURRENT**



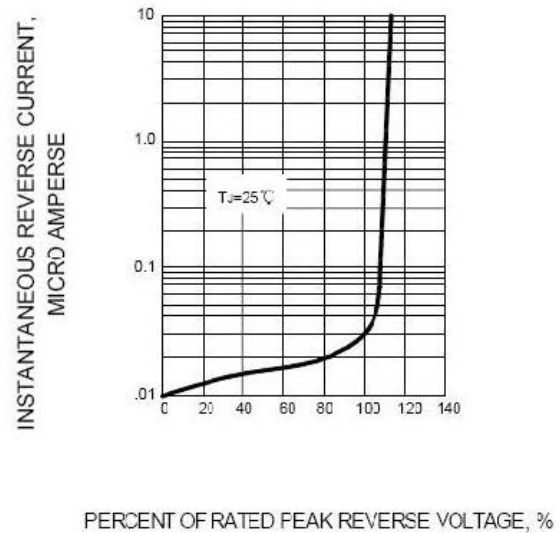
**FIG.2 -- FORWARD DERATING CURVE**



**FIG.3 -- TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 -- TYPICAL REVERSE CHARACTERISTIC**



Device	Package	Shipping
DB151--DB157	DB-1	50unit/pipe