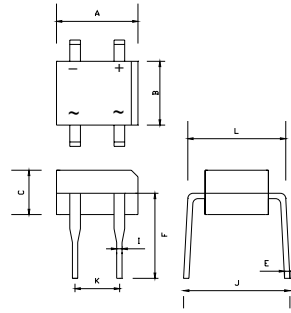




### Features

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 50 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 classification 94V-O
- ◇ Polarity symbols molded on body
- ◇ Weight: 0.02 ounces,0.38 grams



### DB-1

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		

Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

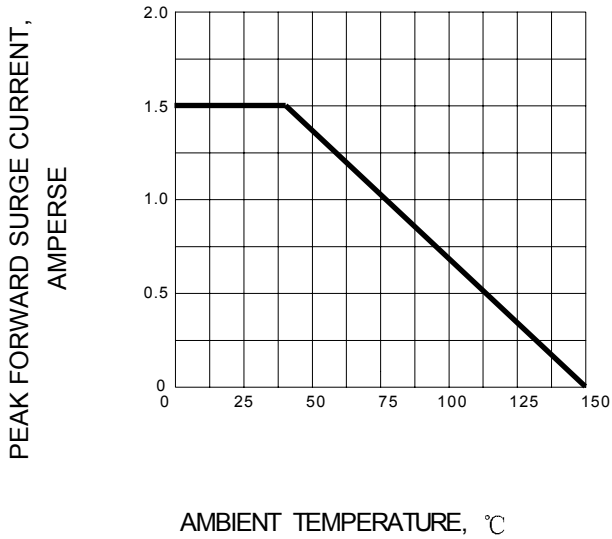
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		DF 150M	DF 151M	DF 152M	DF 154M	DF 156M	DF 158M	DF 1510M	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	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 @ $T_A=40^\circ C$	$I_{F(AV)}$	1.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	50							A
Current squared time $t < 8.3ms$ , $T_a = 25^\circ C$	$I^2t$	10							A <sup>2</sup> s
Maximum instantaneous forward voltage at 1.5 A	$V_F$	1.1							V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=125^\circ C$	$I_R$	10.0 0.5							$\mu A$ mA
Typical thermal resistance junction to lead On aluminum substrate	$R_{\theta JL}$ $R_{\theta JA}$	15 68							$^\circ C/W$
Operating junction temperature range	$T_J$	- 55 ---- + 150							$^\circ C$
Storage temperature range	$T_{STG}$	- 55 ---- + 150							$^\circ C$

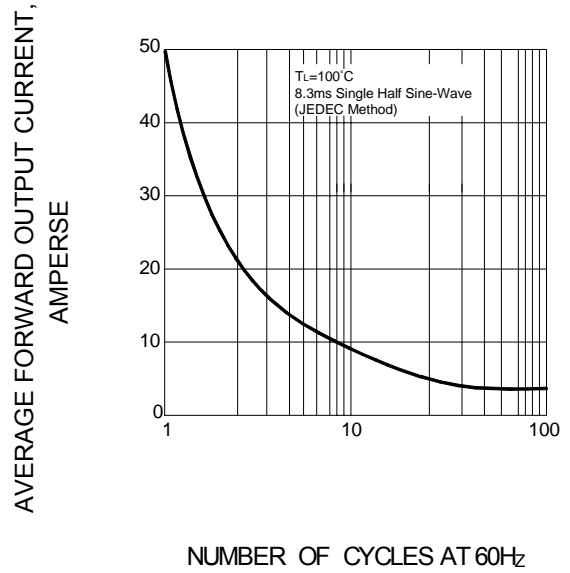


### Ratings AND Characteristic Curves

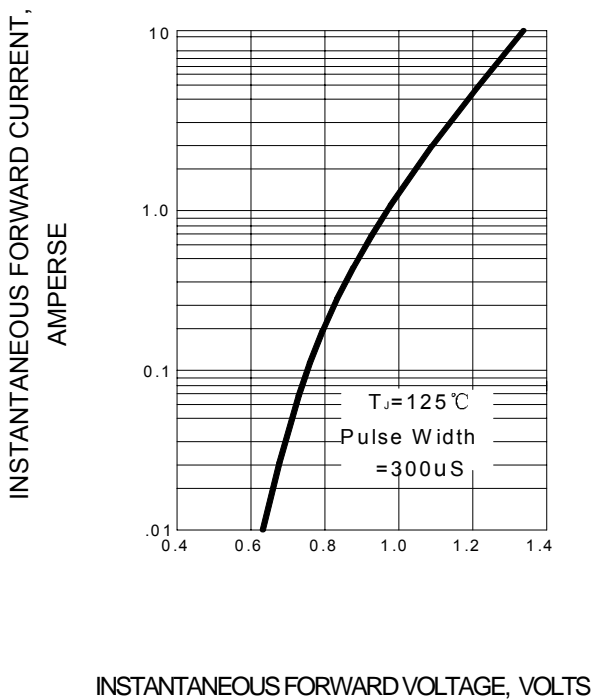
**FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE**



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



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**

