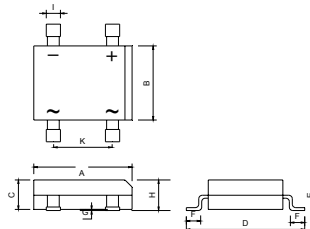


## FEATURES

- 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 classification 94V-0



DB-S		
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		

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

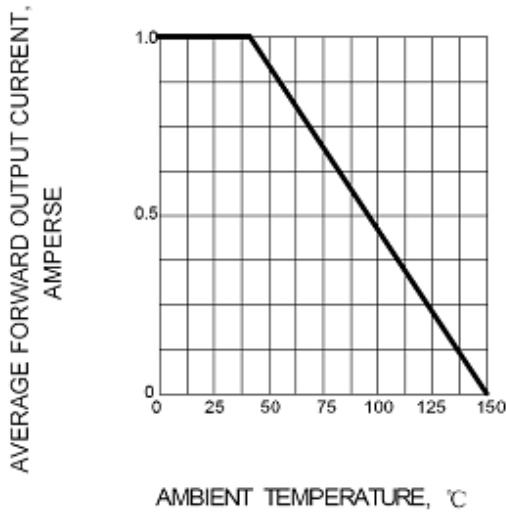
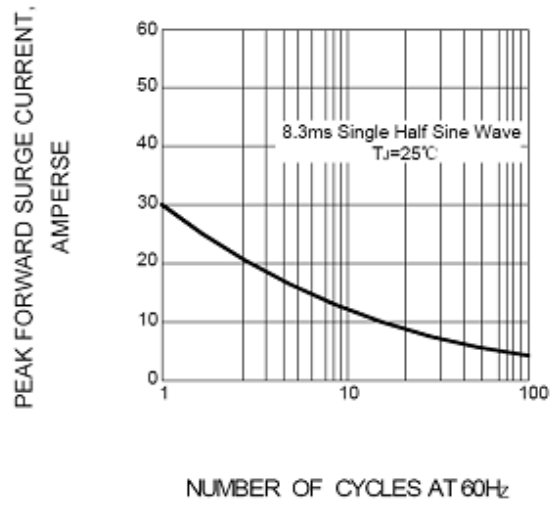
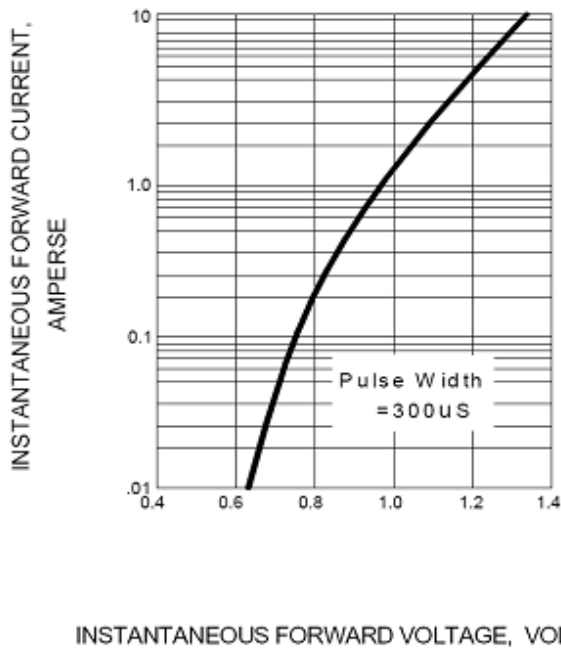
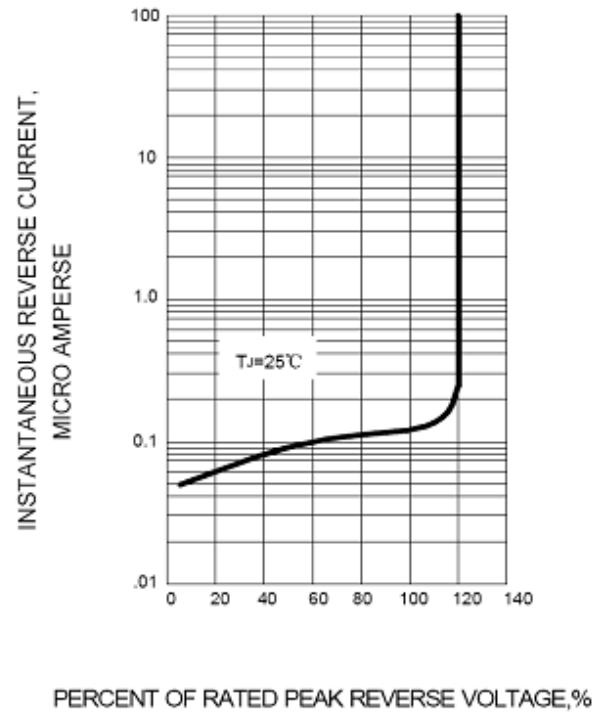
Characteristic	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward Output current @TA=40°C	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	30							A
Current squared time $t < 8.3ms$ , $T_a = 25^\circ C$	$I^2t$	3.7							A <sup>2</sup> s

## Thermal Characteristics

Characteristic	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	UNITS
Typical thermal resistance per leg	$R_{\theta JA}$	66							°C/W
	$R_{\theta JC}$	30							
	$R_{\theta JL}$	28							
Operating junction temperature range	$T_J$	- 55 ---- + 150							°C
Storage temperature range	$T_{STG}$	- 55 ---- + 150							°C

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

Characteristic	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	UNITS
Maximum instantaneous forward voltage at 1.0 A	$V_F$	1.1							V
Maximum reverse current @TA=25°C at rated DC blocking voltage @TA=100°C	$I_R$	5.0							μA
		0.5							mA

**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**


Device	Package	SPQ/PCS
DB151S--DB157S	DBS	1500/REEL