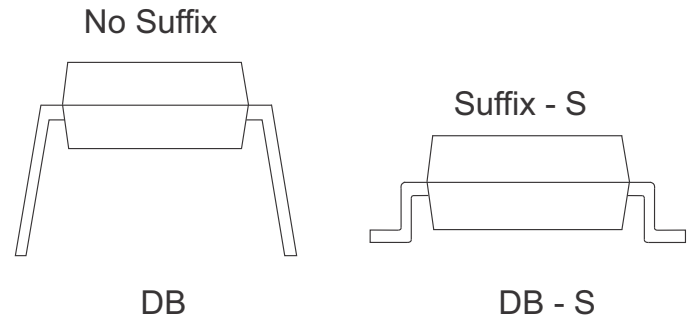




### FEATURES

- UL Recognized
- Current 1.5 Amps
- Voltage Range 50V ~ 1000V
- Glass passivated chip junction
- Low forward voltage drop, high current capability
- Available in 1.0Amp, 1.5Amps and 2.0Amps



### MECHANICAL DATA

- Molded plastic body (UL 94V-0 rated)
- Mounting position: any; Lead: solder plated
- Polarity: As marked

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load, derate current by 20%

Parameter	Symbol	DB151 (S)	DB152 (S)	DB153 (S)	DB154 (S)	DB155 (S)	DB156 (S)	DB157 (S)	Unit
		DF15005M	DF1501M	DF1502M	DF1504M	DF1506M	DF1508M	DF1510M	
Maximum Repetitive 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 Rectified Current, @ $T_c=40^\circ C$	$I_O (AV)$	1.5							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	30							A
$I^2t$ for fusing (t < 8.3ms), non-repetitive	$I^2t$	3.7							A <sup>2</sup> S
Max. Instantaneous Forward Voltage @1.5A	$V_F$	1.1							V
Maximum DC Reverse Current at rated DC Blocking voltage Per Element	$I_R$	10							$\mu A$
Typical Thermal Resistance (Note)	$R_{JL}$	15							$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to + 150							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to + 150							$^\circ C$

**NOTE:** Thermal Resistance from Junction to Lead mounted on P.C.B. with 0.47" x 0.47" (12mm x 12mm) copper pads

Cross for DF1500M Thru DF1510M

**RATING & CHARACTERISTIC CURVES**

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

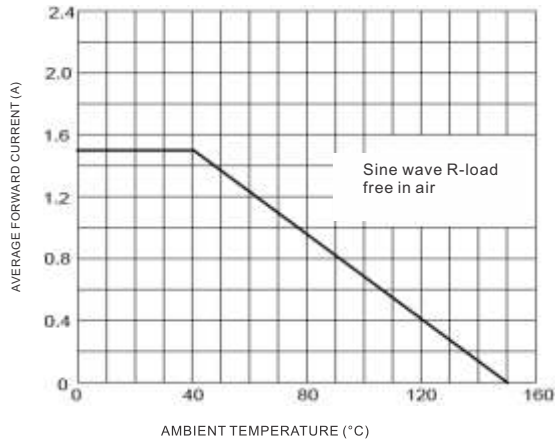


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

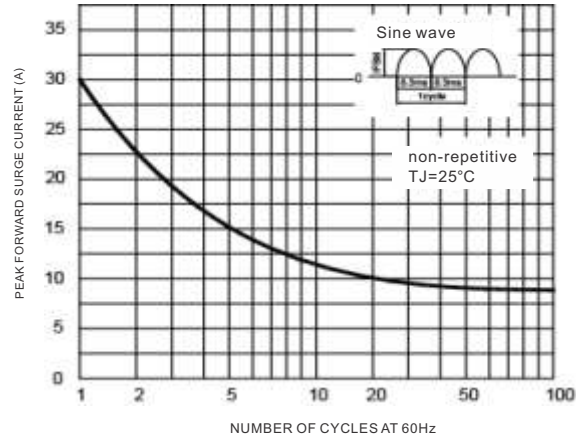


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

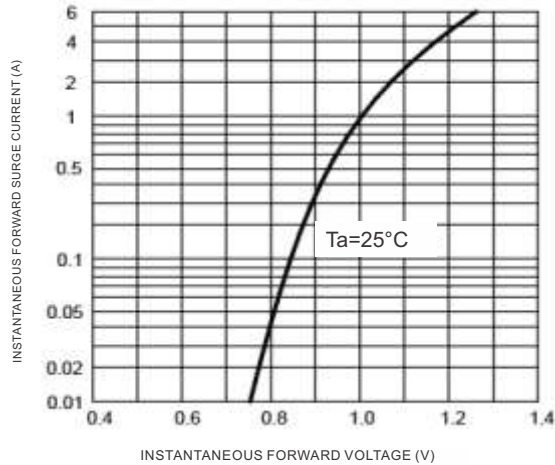
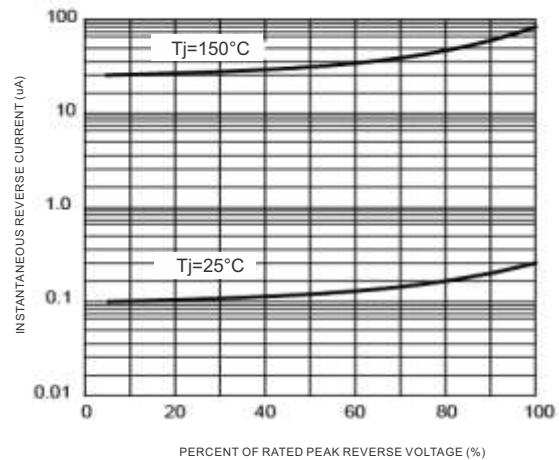


FIG. 4- TYPICAL REVERSE CHARACTERISTICS



**DIMENSIONS** in inches and (millimeters)

