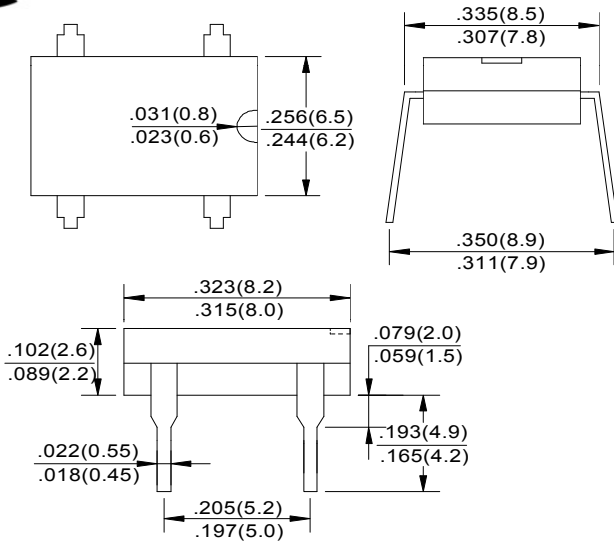




DF15005 thru DF1510

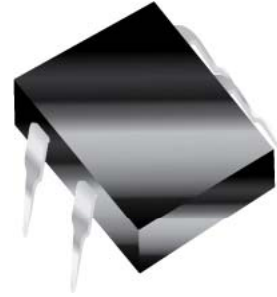


Glass Passivated Bridge Rectifier



DF

Dimensions in inches and (millimeters)



PRIMARY CHARACTERISTICS	
I_F	1.5A
V_{RRM}	50~1000V
I_{FSM}	50A
V_F	1.1V
$T_J \text{ max}$	150°C

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0

Mechanical Date

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any

MAXIMUM RATINGS (TA=25°C unless otherwise noted)									
PARAMETER	SYMBOL	DF 15005	DF 1501	DF 1502	DF 1504	DF 1506	DF 1508	DF 1510	UNIT
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 @TA=40°C	I_F	1.5							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50.0							A
Maximum Instantaneous Forward Voltage IF=1.5A @ 25°C	V_F	1.10							V
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=125°C	I_R	10 500							uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	10.4							A ² s
Typical Junction Capacitance(NOTE1)	C_j	25							pF
Typical Thermal Resistance	$R_{\theta JA}$	40							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5"(13*13mm) copper pads.



FIG.1-FORWARD CURRENT DERATING CURVE

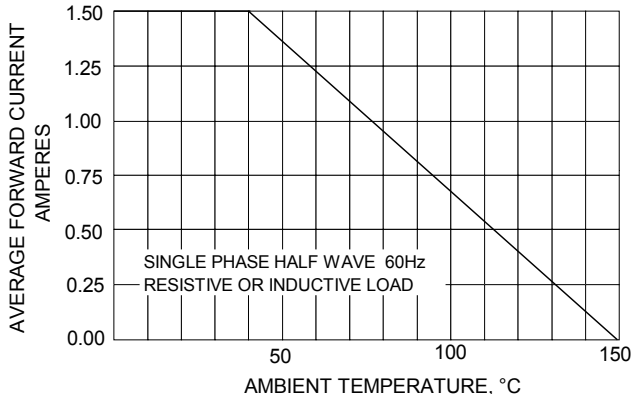


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

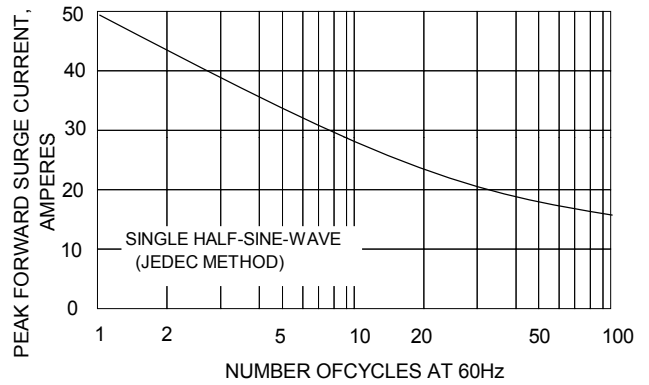


FIG.3-TYPICAL JUNCTION CAPACITANCE

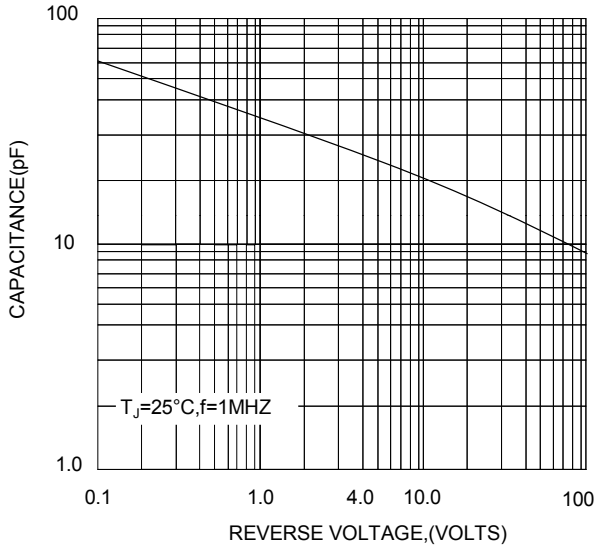


FIG.4-TYPICAL FORWARD CHARACTERISTICS

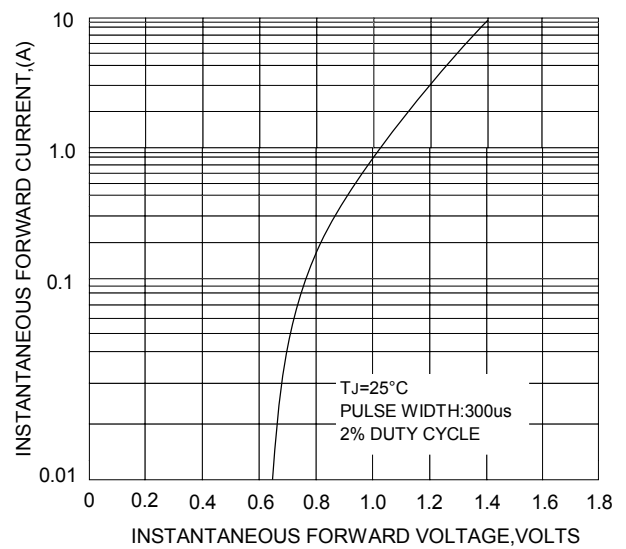


FIG.5-TYPICAL REVERSE CHARACTERISTICS

