

# SMD General Purpose Bridge Rectifier



## DF15005S-G thru DF1510S-G

### Glass Passivated Type

Reverse Voltage: 50 ~ 1000 Volts

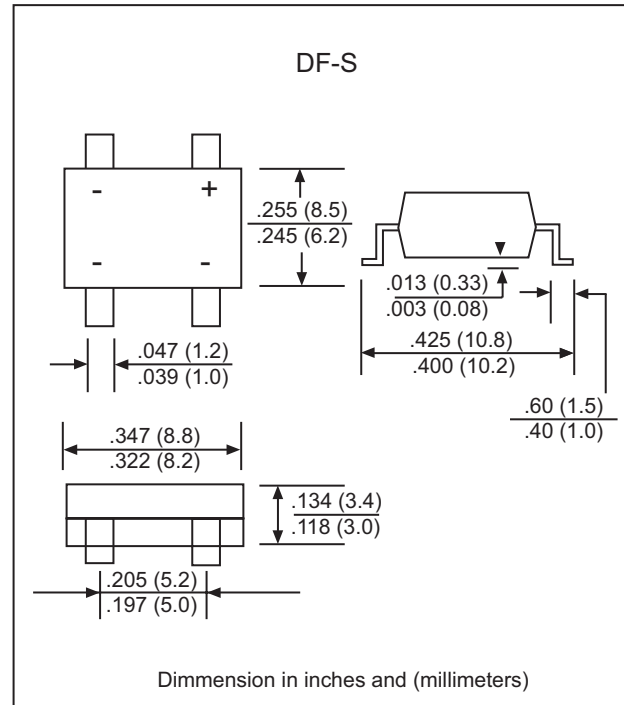
Forward Current: 1.5 Amp

### Features:

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Low forward voltage drop
- Glass passivated junction

### Mechanical Data:

- Case: Molded plastic, DF-S
- Terminals: solderable per MIL-STD-750, Method 2026
- Polarity: Marked on body
- Mounting position: Any
- Approx. Weight: 1.0 gram



## Maximum Ratings and Electrical Characteristics

Parameter	Symbol	DF15005S -G	DF1501S -G	DF1502S -G	DF1504S -G	DF1506S -G	DF1508S -G	DF1510S -G	Unit
Max. Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Max. DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Max. RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Peak Surge Forward Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	50							A
Max. Average Forward Current	$I_o$	1.5							A
Max. Instantaneous Forward Current at 1.5A	$V_F$	1.1							V
Max. DC Reverse Current at Rated DC Blocking Voltage $T_a=25^{\circ}C$ $T_a=125^{\circ}C$	$I_R$	10 500							$\mu A$
Max. Thermal Resistance (Note 1)	$R_{\theta JA}$	40							$^{\circ}C/W$
Operating Junction Temperature	$T_j$	-55 to +150							$^{\circ}C$
Storage Temperature	$T_{STG}$	-55 to +150							$^{\circ}C$

Note1: Thermal resistance from junction to ambient.

"-G" suffix designated RoHS compliant version



## Rating and Characteristic Curves (DF15005S-G thru DF1510S-G)

Fig. 1 - Reverse Characteristics

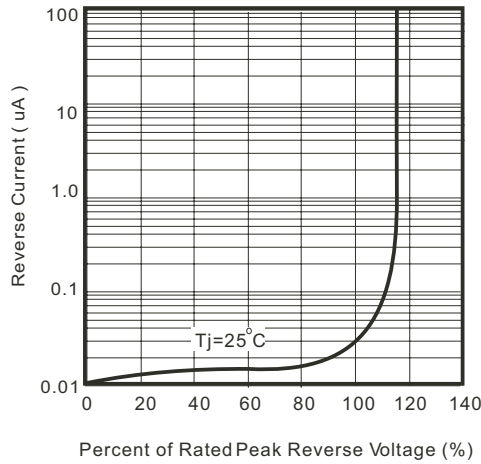


Fig.2 - Forward Characteristics

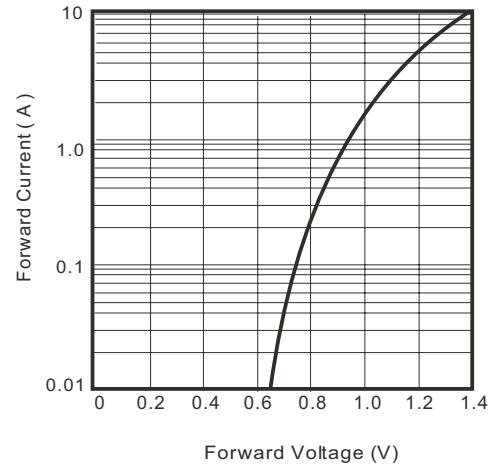


Fig. 3 - Non Repetitive Forward Surge Current

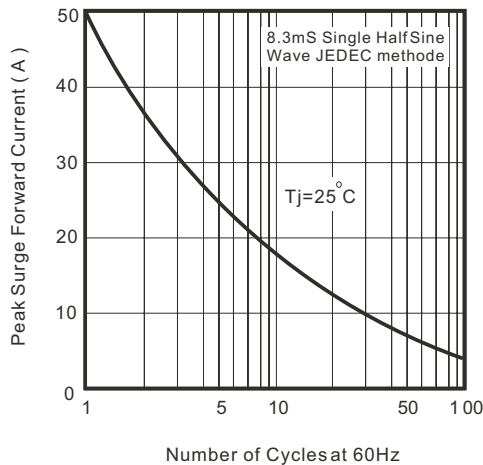


Fig. 4 - Current Derating Curve

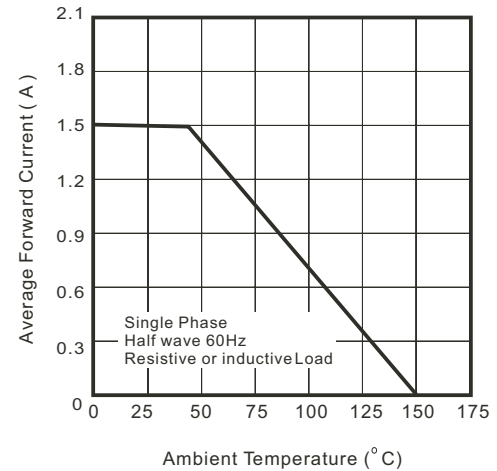
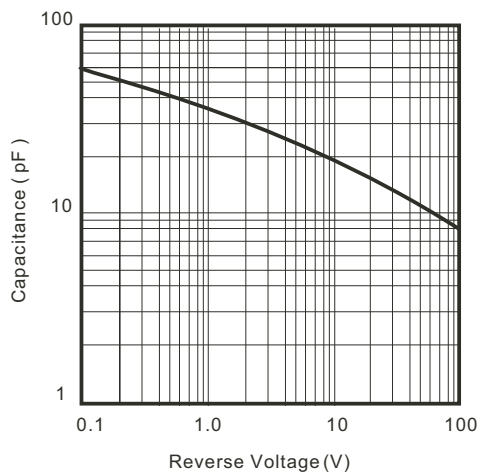


Fig. 5 - Typical Junction Capacitance



"-G" suffix designated RoHS compliant version