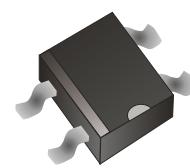


DF15005S-G Thru. DF1510S-G

Reverse Voltage: 50 to 1000V

Forward Current: 1.5A
RoHS Device

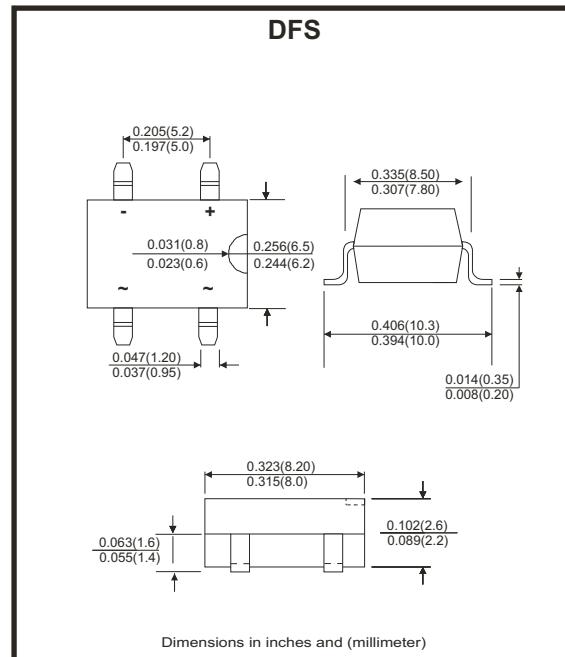


Features

- 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
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0

Mechanical Data

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



Maximum ratings and 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	DF 15005S-G	DF 1501S-G	DF 1502S-G	DF 1504S-G	DF 1506S-G	DF 1508S-G	DF 1510S-G	Unit
	Marking	DF15005S	DF1501S	DF1502S	DF1504S	DF1506S	DF1508S	DF1510S	
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 Rectified Current @T _A =40°C	I _(AV)				1.5				A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}				50				A
I ² t Rating for Fusing (t<8.3ms)	I ² t				10.4				A ² s
Maximum Forward Voltage at 1.5A DC	V _F				1.1				V
Maximum DC Reverse Current @T _J = 25°C at Rated DC Blocking Voltage @T _J =125°C	I _R				10 500				µA
Typical Junction Capacitance Per Element (Note 1)	C _J				25				pF
Typical Thermal Resistance (Note 2)	R _{θJA}				40				°C/W
Operating Temperature Range	T _J				-55 ~ +150				°C
Storage Temperature Range	T _{STG}				-55 ~ +150				°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC
2. Unit mounted on P.C.B with 0.50"×0.50" (13×13mm) copper pads.

REV:A

SMD Glass Passivated Bridge Rectifiers

COMCHIP
SMD Diodes Specialist

Rating and Characteristics Curves (DF15005S-G Thru. DF1510S-G)

FIG . 1-Forward Current Derrent Curve

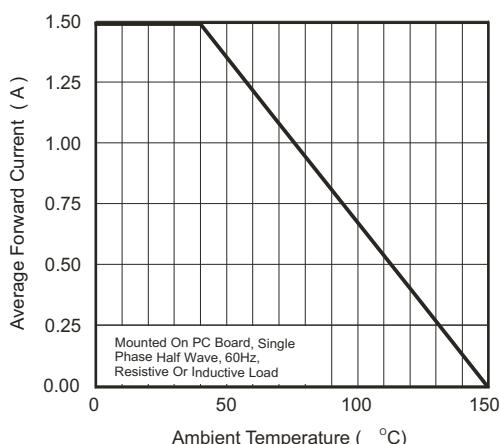


FIG. 2-Maximum Non-Repetitive Peak Forward Surge Current

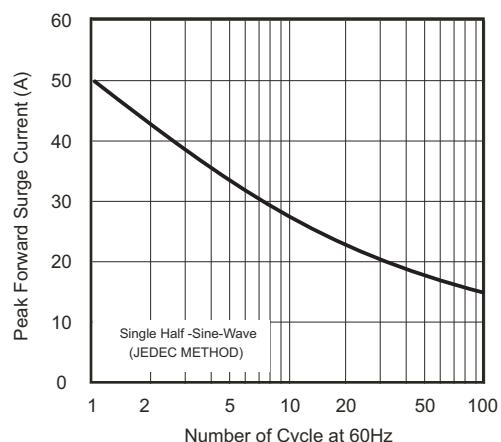


Fig. 3- Typical Junction Capacitance

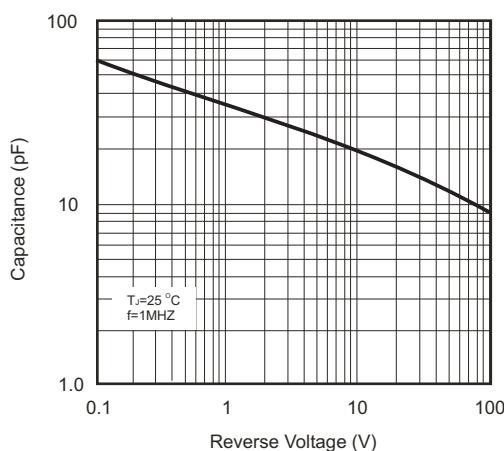


Fig. 4- Typical Forward Characteristics

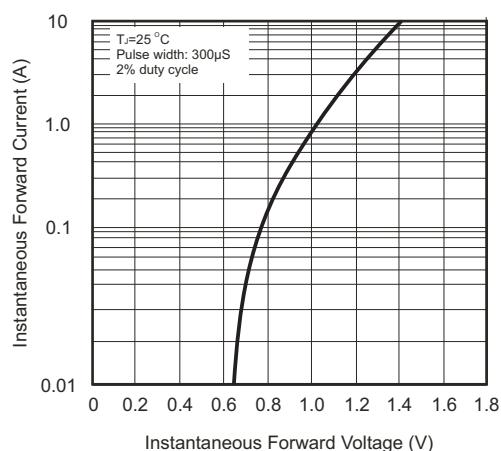
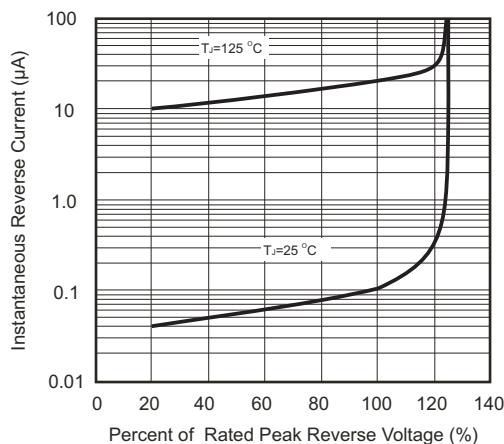


Fig. 5- Typical Reverse Characteristics



REV: A