

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.5 Amperes
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	DFS Dimensions in inches and (millimeters)

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%

CHARACTERISTICS	SYMBOL	DF 15005S	DF 1501S	DF 1502S	DF 1504S	DF 1506S	DF 1508S	DF 1510S	UNIT
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℃	I _(AV)	1.5							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	50							A
Maximum Forward Voltage at 1.5A DC	V _F	1.1							V
Maximum DC Reverse Current @T _J =25℃ at Rated DC Blocking Voltage @T _J =125℃	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 Per Element(Note1)	C _J	25							pF
Typical Thermal Resistance (Note2)	R _{θJC}	40							℃/W
Operating Temperature Range	T _J	-55 to +150							℃
Storage Temperature Range	T _{STG}	-55 to +150							℃

Note: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

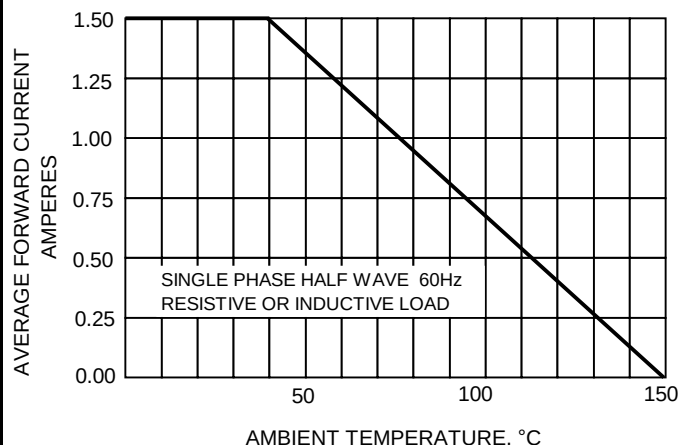


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

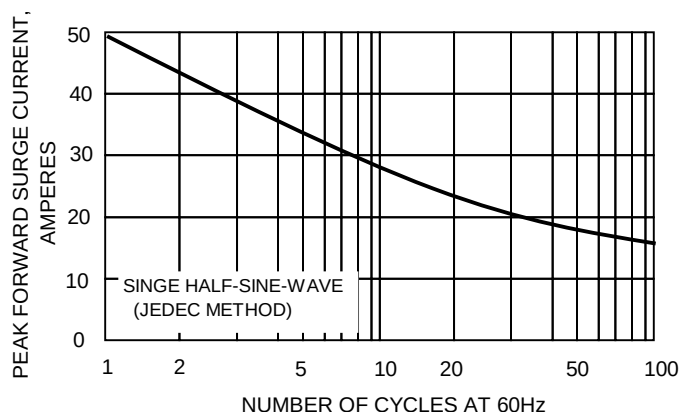


FIG.3-TYPICAL JUNCTION CAPACITANCE

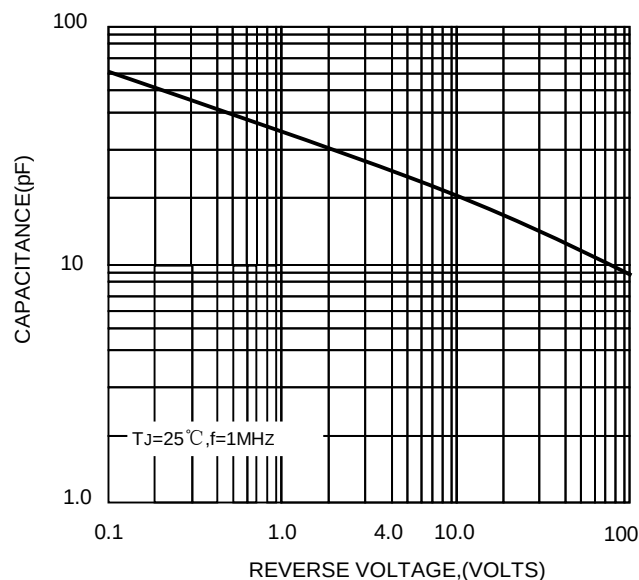


FIG.4-TYPICAL FORWARD CHARACTERISTICS

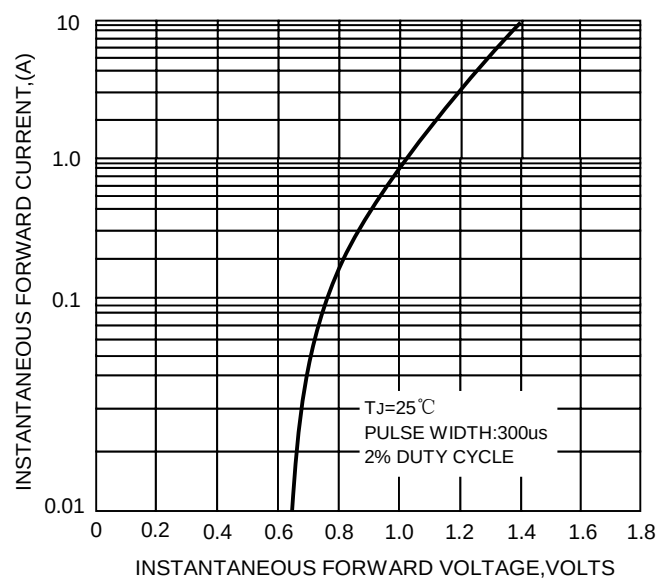


FIG.5-TYPICAL REVERSE CHARACTERISTICS

