

**SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **50 to 1200** Volts
FORWARD CURRENT - **1.5** Amperes

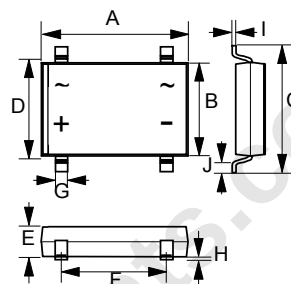
FEATURES

- Rating to 1200V 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
- UL recognized file # E95060

MECHANICAL DATA

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

DF-S



DF-S		
DIM.	MIN.	MAX.
A	8.20	8.50
B	6.20	6.50
C	-	10.30
D	7.40	7.90
E	2.40	2.60
F	5.00	5.20
G	1.00	-
H	.076	.330
I	0.22	0.30
J	1.02	1.53
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	DF 15005S	DF 1501S	DF 1502S	DF 1504S	DF 1506S	DF 1508S	DF 1510S	DF 1512S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	1200	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	840	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	1200	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 superimposed 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°C @T _J =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 per element (Note1)	C _J	25								pF
Typical Thermal Resistance (Note 2)	R _{θJA}	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 4.0VDC.

2.Thermal resistance from junction to ambient mounted on

P.C.B

with 0.5x0.5"(13x13mm) copper pads.

REV. 7, Sep-2010, KBDA02

FIG.1 - FORWARD CURRENT DERATING CURVE

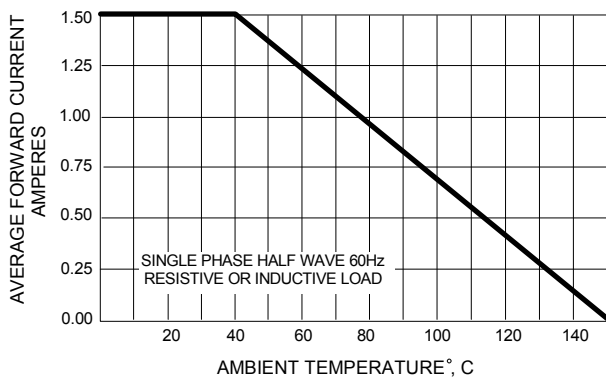


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

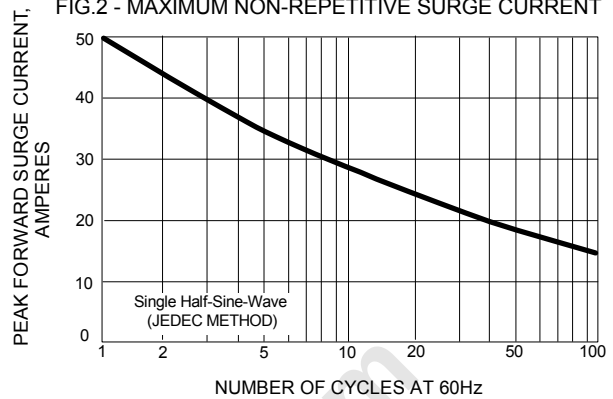


FIG.3 - TYPICAL JUNCTION CAPACITANCE

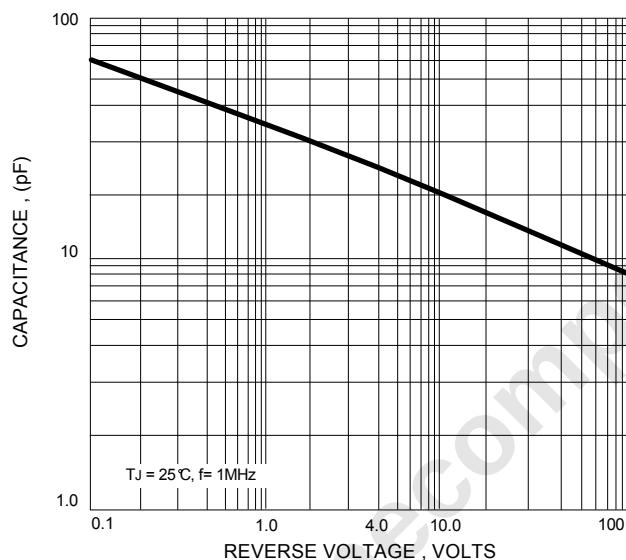


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

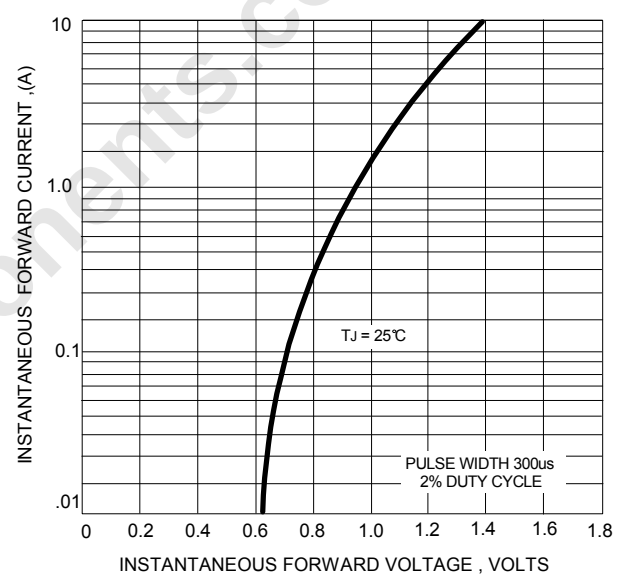


FIG.5 - NON-REPETITIVE PEAK FORWARD SURGE CAPABILITY

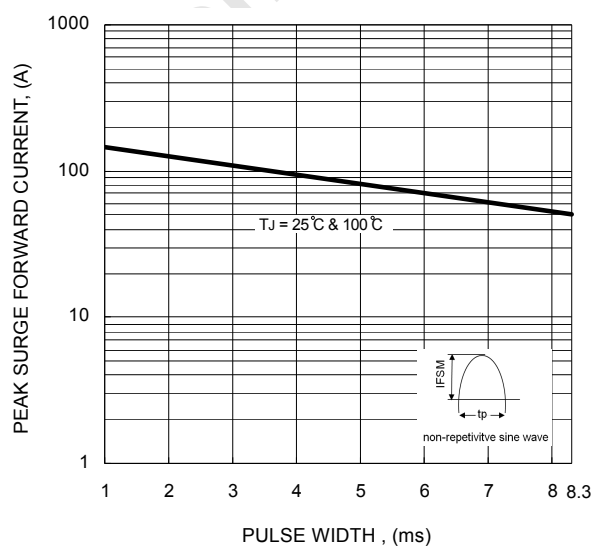
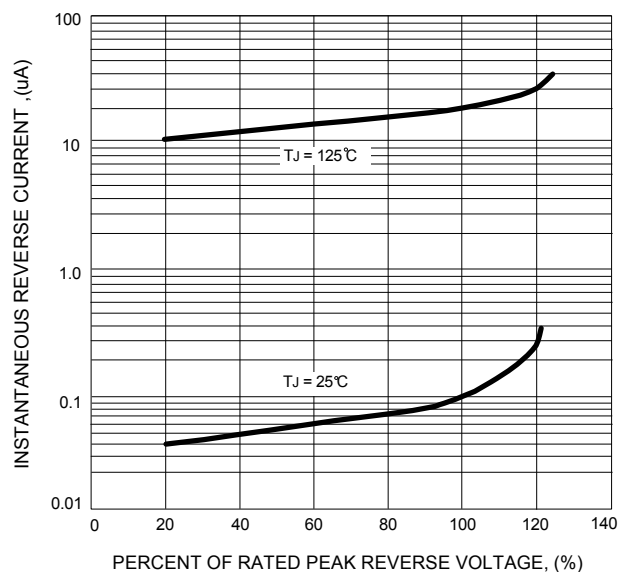


FIG. 6 - TYPICAL REVERSE CHARACTERISTICS



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