LITE-ON SEMICONDUCTOR

DF04SH thru DF10SH

SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE **- 400** to **1000** Volts
FORWARD CURRENT **- 1.0** Amperes

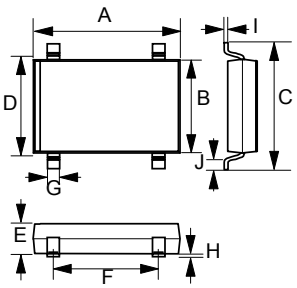
FEATURES

- 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
- 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℃ ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	DF04SH	DF06SH	DF08SH	DF10SH	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=40℃	$I_{(AV)}$	1.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	60				A
Maximum forward Voltage at 1.0A DC	V_F	1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T_J=25℃ @T_J=125℃	I_R	10 500				uA
I^2t Rating for fusing (t < 8.3ms)	I^2t	10.4				A^2S
Typical Junction Capacitance per element (Note 1)	C_J	25				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40				℃/W
Operating Temperature Range	T_J	-55 to +150				℃
Storage Temperature Range	T_{STG}	-55 to +150				℃

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

REV. 2, Sep-2010, KBDA06

RATING AND CHARACTERISTIC CURVES
DF04SH thru DF10SH

FIG.1 - FORWARD CURRENT DERATING CURVE

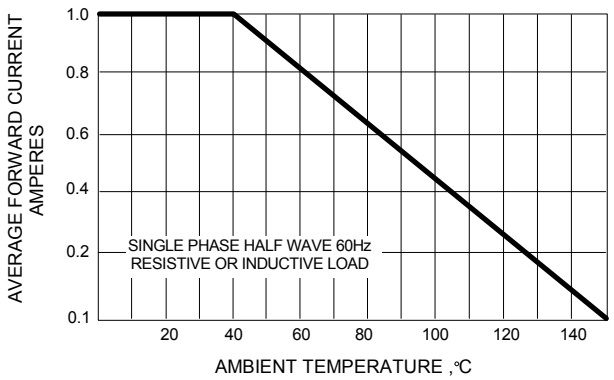


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

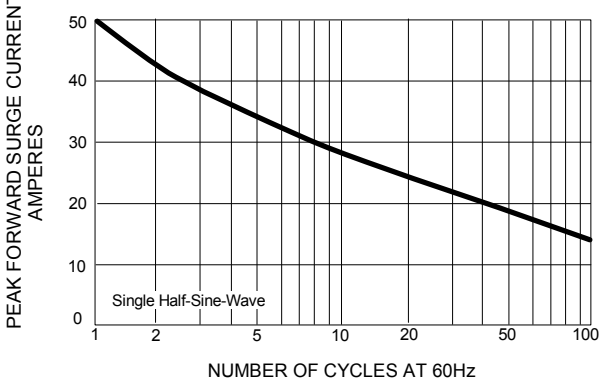


FIG.3 - TYPICAL JUNCTION CAPACITANCE

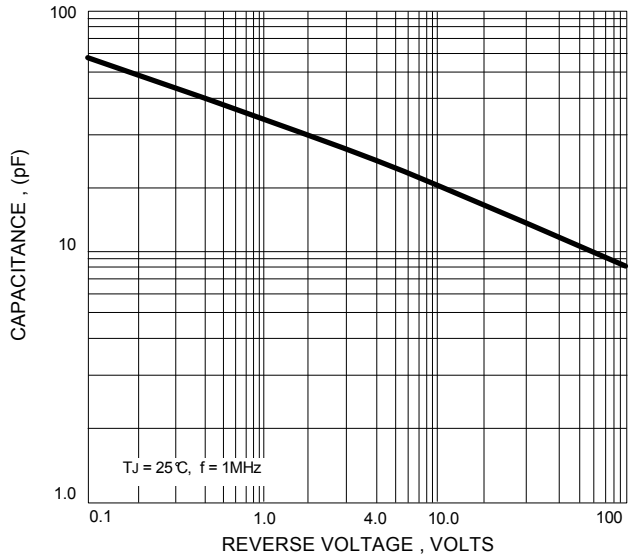


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

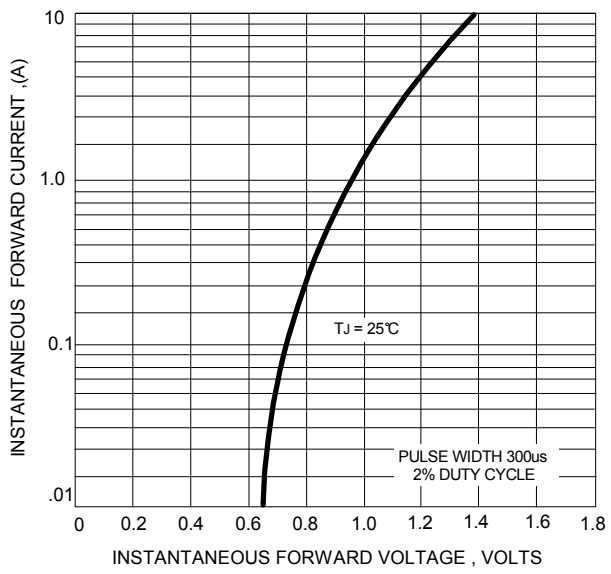
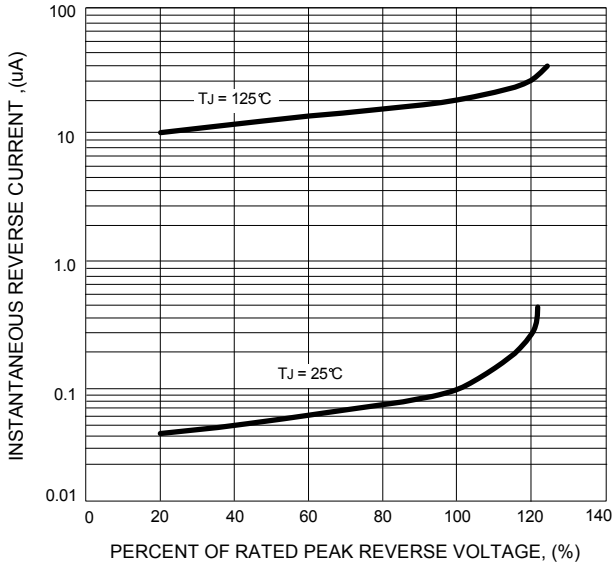


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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