

**SURFACE MOUNT
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - **400 to 1000** Volts
FORWARD CURRENT - **2.0** Amperes

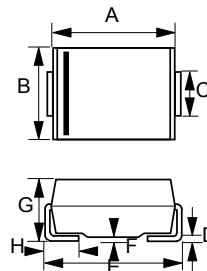
FEATURES

- Glass passivated chip
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case : Molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.003 ounces, 0.093 grams

SMB



SMB		
DIM.	MIN.	MAX.
A	4.06	4.57
B	3.30	3.94
C	1.96	2.21
D	0.15	0.31
E	5.21	5.59
F	0.05	0.20
G	2.01	2.50
H	0.76	1.52
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	S2GH	S2JH	S2KH	S2MH	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	400	600	800	1000	V
Maximum RMS Voltage	VRMS	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc=100°C	I(AV)	2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	50				A
Maximum forward Voltage at 2.0A DC	VF	1.15				V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C	IR	5.0 125				uA
Typical Junction Capacitance (Note 1)	CJ	10				pF
Typical Thermal Resistance (Note 2, 3)	RθJC	20				°C/W
Operating Temperature Range	TJ	-55 to +150				°C
Storage Temperature Range	TSTG	-55 to +150				°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal Resistance Junction to Case.
3.Measured on P.C. Board with 8mm x 8mm Copper Pad Areas.

REV. 2, Oct-2010, KSDB04

FIG.1 - FORWARD CURRENT DERATING CURVE

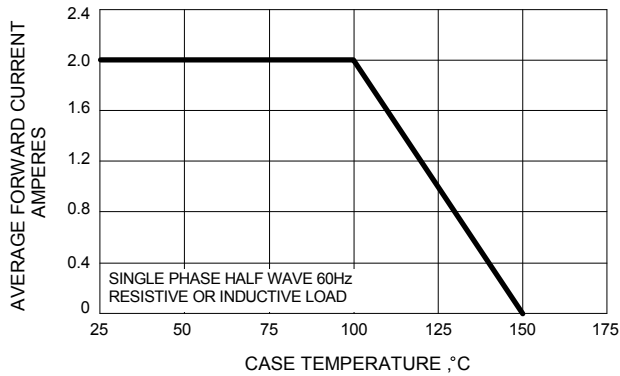


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

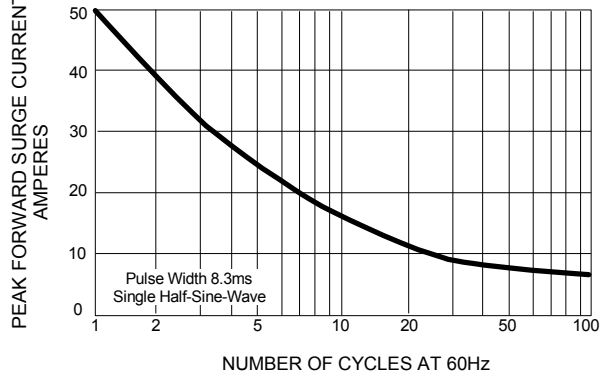


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

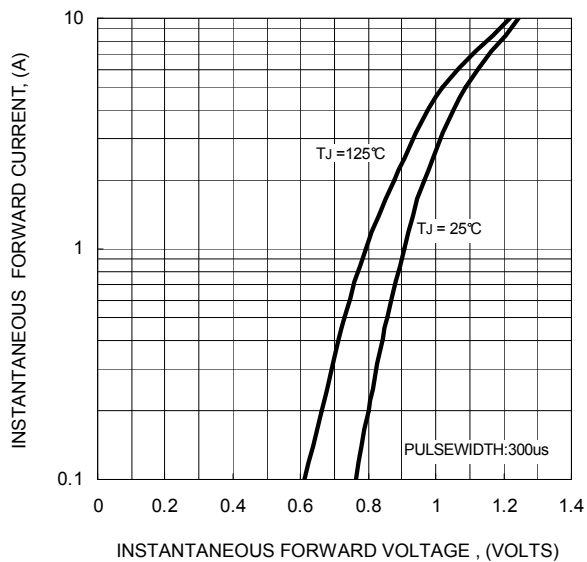


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

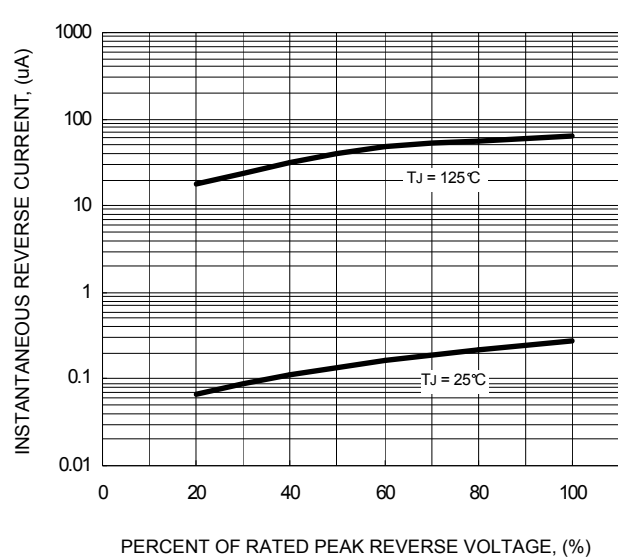
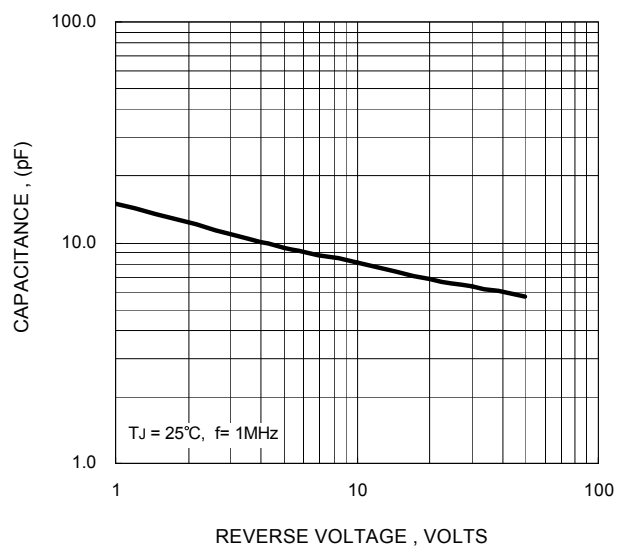


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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