

**SURFACE MOUNT
GLASS PASSIVATED RECTIFIERS**

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

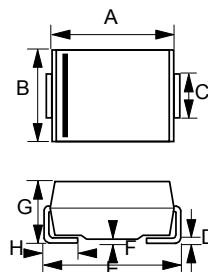
FEATURES

- 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	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 _c = 100°C	I _(AV)			2.0		A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}			50		A
Maximum forward Voltage at 2.0A DC	V _F			1.15		V
Maximum DC Reverse Current @T _J = 25°C at Rated DC Blocking Voltage @T _J = 125°C	I _R			5.0 125		uA
Typical Junction Capacitance (Note 1)	C _J			10		pF
Typical Thermal Resistance (Note 2, 3)	R _{θJC}			20		°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 4.0V DC.

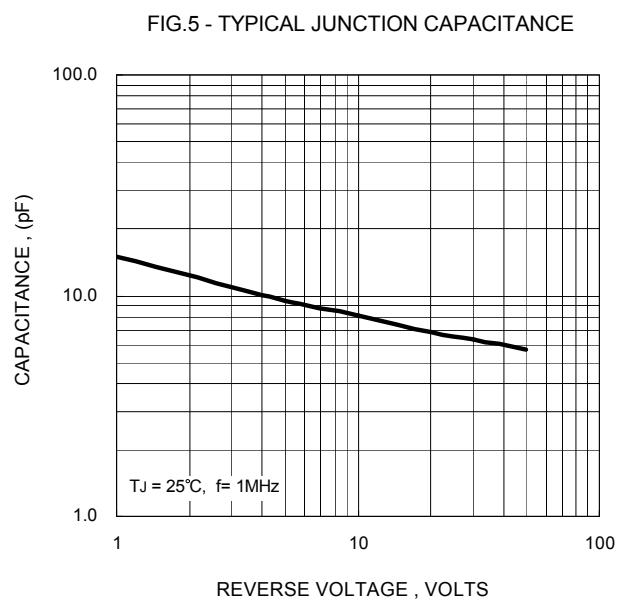
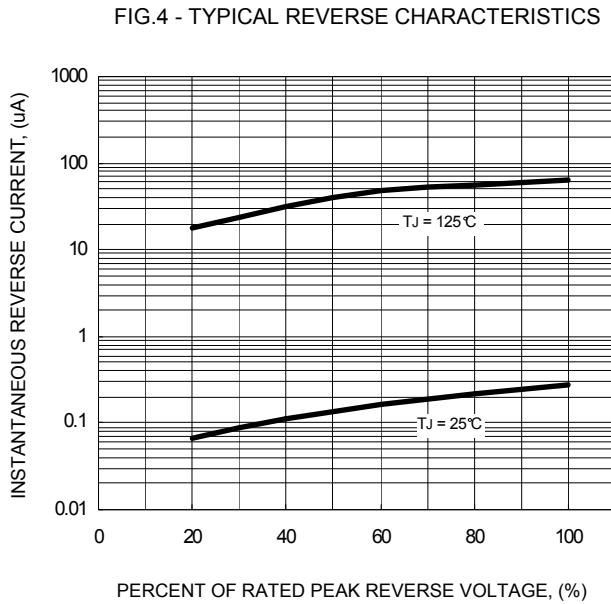
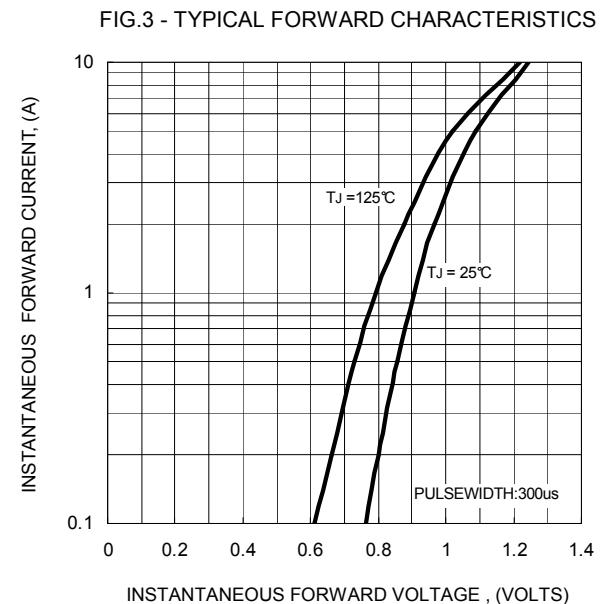
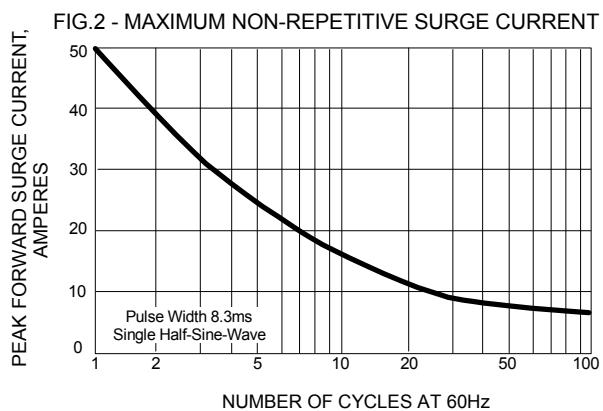
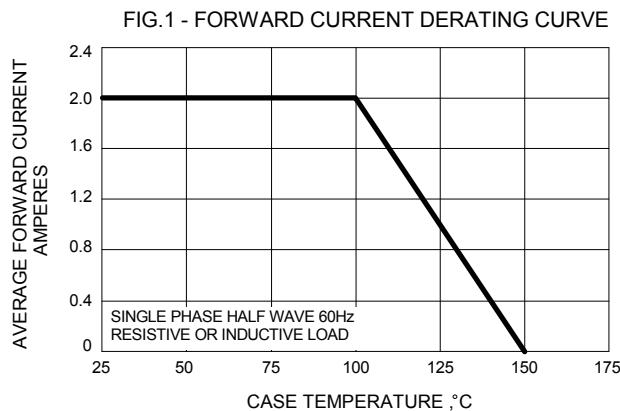
REV. 2, Oct-2010, KSDB04

2. Thermal Resistance Junction to Case.

3. Measured on P.C. Board with 8mm x 8mm Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES
S2GH thru S2MH

LITEON



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