LITEON SEMICONDUCTORS

SURFACE MOUNT **GLASS PASSIVATED RECTIFIER**

FEATURES

- · Glass passivated chip
- · For surface mounted applications
- · Low reverse leakage current
- Low forward voltage drop
- · High current capability

MECHANICAL DATA

- Case: Molded plastic
- · Polarity: Indicated by cathode band
- · Terminals: Solder plated copper
- Weight: 0.002 ounce, 0.064 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER			SYMBOL	S2GHA	S2JHA	S2K	HA	S2MHA	UNIT
Device marking code			Note	S2GHA	S2JHA	S2KI	HA	S2MHA	
Maximum Repetitive 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
Average Rectified Output Current @TL=90°C			I _(AV)	2.0			А		
Peak Forward Surge Current 8.3ms single half sine-wave			I _{FSM}	50				А	
Operating junction temperature range			TJ	-55 to +150				°C	
Storage temperature range			T _{STG}	-55 to +150			°C		
PARAMETER	TEST	CONDITIONS	SYMBOL	Max.				UNIT	
Forward Voltage (1)	IF=2.0A	Tj=25°C	VF		1.	15			V
Leakage Current (1)	VR=V _{DC}	Tj=25°C Tj=125°C	I _R	5 125				uA	
THERMAL CHARACTERISTIC			SYMBOL	Typical			UNIT		
Typical junction capacitance (2)			CJ	10			pF		
Typical thermal resistance _ Junction to Case (3)			R⊖ _{JC}	21			°C/W		
Typical thermal resistance _ Junction to Ambient (3)			Reja	58			°C/W		
Typical thermal resistance _ Junction to Lead (3)			R⊖ _{JL}	33			°C/W		
Note :			· ·				REV. 0	, Apr-2010, KS	DA05

Note :

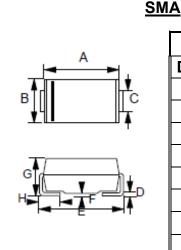
300us Pulse width, 2% Duty cycle. (1)

Measured at 1.0MHz and applied reverse voltage of 4.0V DC. (2)

Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 0.75t glass-epoxy substrate with 10mmx10mm (3) copper pad. $R_{\theta_{JL}}$ is measured at the lead of cathode band, $R_{\theta_{JC}}$ is measured at the top centre of body.

REVERSE VOLTAGE – 400 to 1000 Volts FORWARD CURRENT – 2.0 Ampere

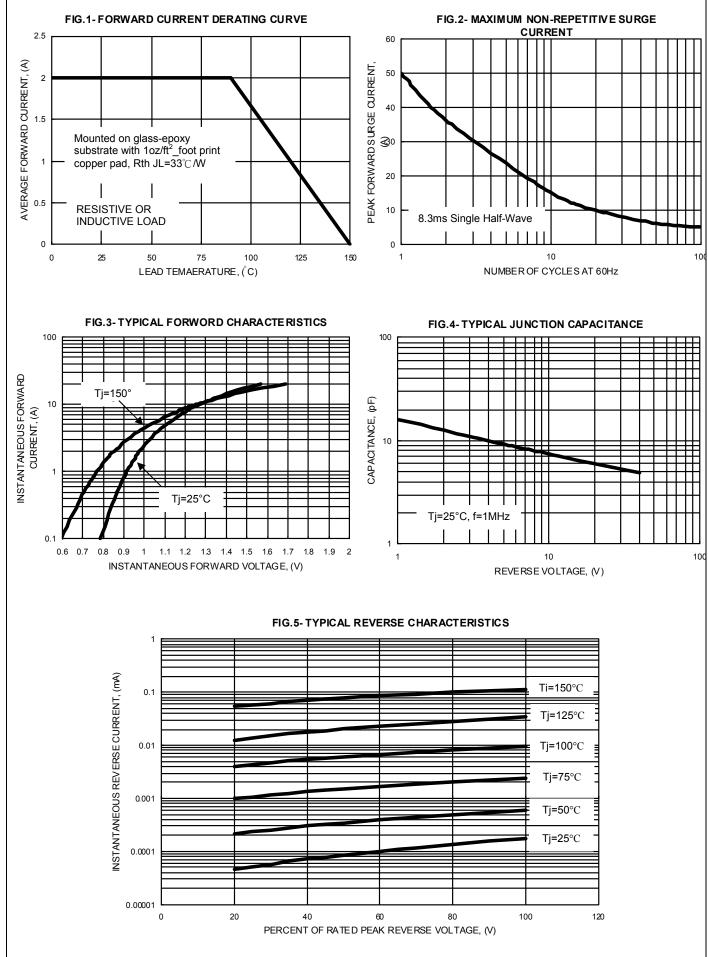
S2GHA thru S2MHA



SMA							
DIM.	MIN.	MAX.					
Α	4.06	4.57					
В	2.29	2.92					
С	1.27	1.63					
D	0.15	0.31					
Ε	4.83	5.59					
F	0.05	0.20					
G	2.01	2.40					
Η	0.76	1.52					
All dimension in millimeter							

RATING AND CHARACTERISTIC CURVES S2GHA~S2MHA







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