

S2GHA thru S2MHA

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

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

FEATURES

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

MECHANICAL DATA

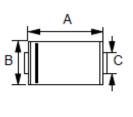
· Case: Molded plastic

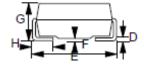
· Polarity: Indicated by cathode band

• Terminals: Solder plated copper

• Weight: 0.002 ounce, 0.064 grams

SMA





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

All dimension in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

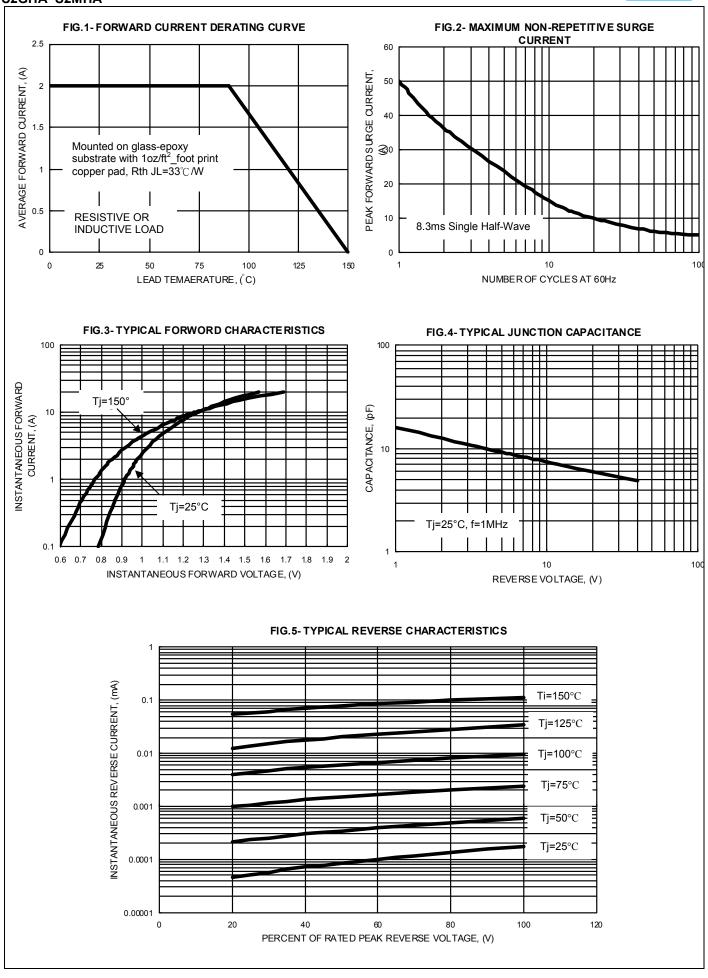
PARAMETER			SYMBOL	S2GHA	S2JHA	S2	KHA	S2MHA	UNIT
Device marking code			Note	S2GHA S2JHA S2KHA S2I				S2MHA	
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	400 600 800 1000					V
Maximum RMS Voltage			V _{RMS}	280 420 560 700				700	V
Maximum DC Blocking Voltage			V _{DC}	400 600 800 1000					V
Average Rectified Output Current @T _L =90°C		I _(AV)	2.0					А	
Peak Forward Surge Current 8.3ms single half sine-wave			I _{FSM}	50					Α
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	V _F	1.15					V
Leakage Current (1)	VR=V _{DC}	Tj=25°C Tj=125°C	I _R	5 125					
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)			R⊖JA	58					°C/W
Typical thermal resistance _ Junction to Lead (3)		R⊖JL	33					°C/W	
Note:			•				REV. 0	, Apr-2010, KS	DA05

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

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

(3) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 0.75t glass-epoxy substrate with 10mmx10mm copper pad. R_{0,JL} is measured at the lead of cathode band, R_{0,JL} is measured at the top centre of body.







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