S2JH-S2MH(LS)

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 2.0 Ampere

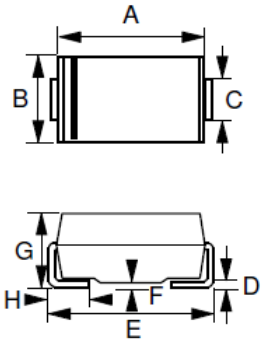
FEATURES

- Glass passivated chip
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- **Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

MECHANICAL DATA

- Package: Molded plastic
- Polarity: Color band denotes cathode
- Weight: 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 dimension in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	S2JH	S2MH	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	1000	V
Maximum RMS Voltage	V_{RMS}	420	700	V
Maximum DC Blocking Voltage	V_{DC}	600	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 (JEDEC METHOD)	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 4)	C_T	10		pF
Typical Thermal Resistance (Note 5, 6)	R_{thJL}	20		°C/W
Operating Temperature Range	T_J	-55 to + 150		°C
Storage Temperature Range	T_{STG}	-55 to + 150		°C

Note:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
5. Thermal Resistance Junction to Case.
6. Measured on P.C. Board with 8mm x 8mm Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES
S2JH-S2MH(LS)

FIG.1 - FORWARD CURRENT DERATING CURVE

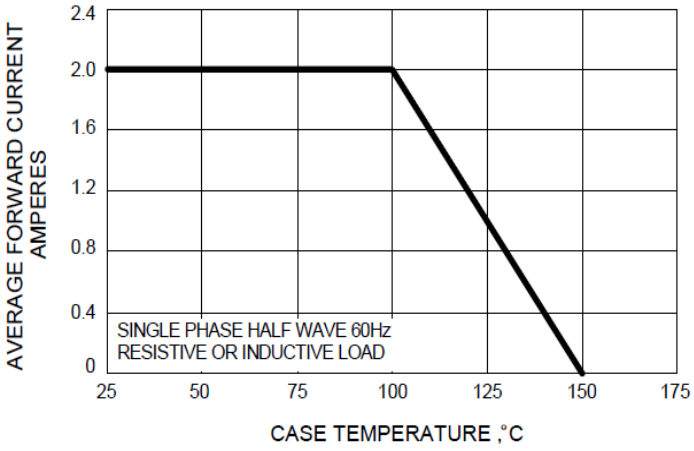


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

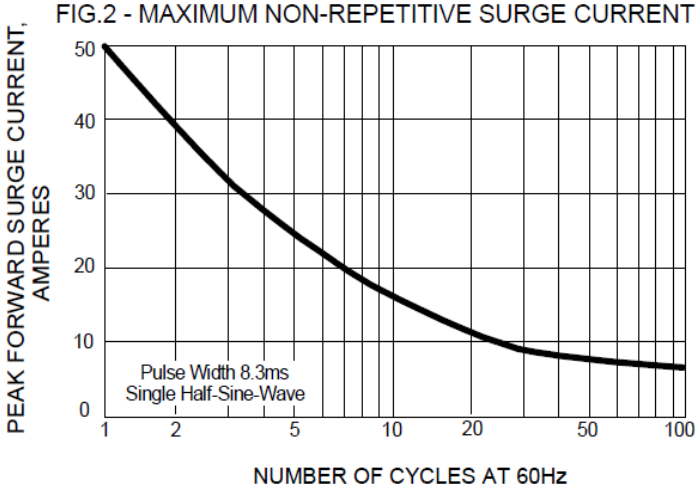


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

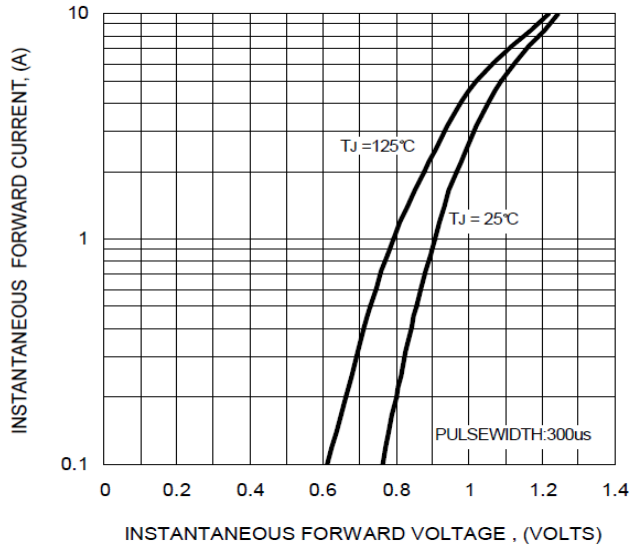


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

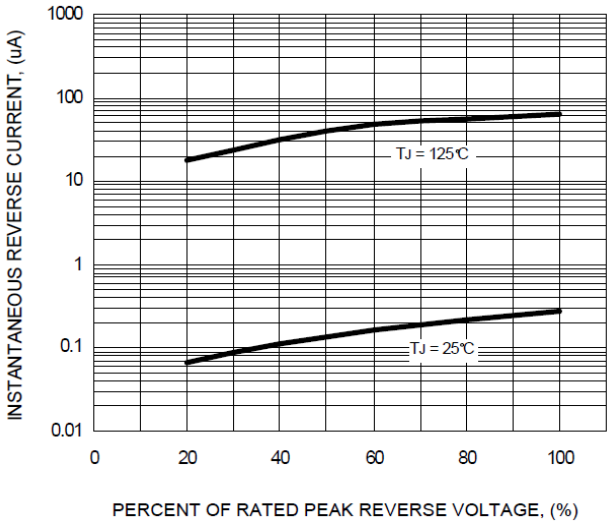
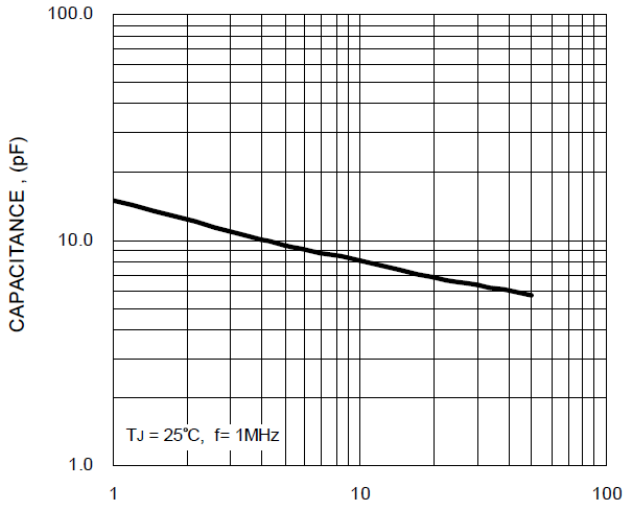


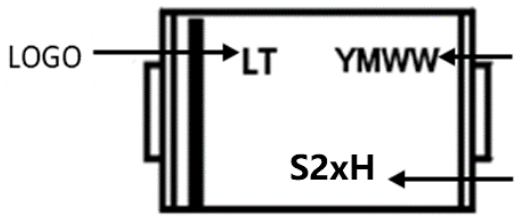
FIG.5 - TYPICAL JUNCTION CAPACITANCE



Ordering Information:

Part Number	Package	Packing	
		Qty.	Carrier
S2JH_HF	SMB	3000pcs	Reel
S2MH_HF	SMB	3000pcs	Reel

Marking Information:



Y = Year code
Date code M = Manufacturer's Internal code
WW = Week code

Product Type

Marking Code, ex: S2JH

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