



LITE-ON SEMICONDUCTOR

S2JA-S2MA(LS)

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 1.5 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)

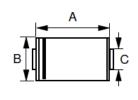
MECHANICAL DATA

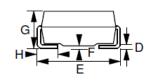
· Package: Molded plastic

Polarity: Indicated by cathode bandTerminal: solder plated coppper

· Weight: 0.064 grams

<u>SMA</u>





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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	S2JA	S2MA	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 @T _L =100°C	I _(AV)	1.5		Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	I _{FSM}	50		А
Maximum Forward Voltage at 1.5A 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
Maximum Reverse Recovery Time (Note 4)	t _{rr}	15	00	ns
I ² t Rating for Fusing (t < 8.3ms)	l ² t	10.5		A ² S
Typical Junction Capacitance (Note 5)	Ст	20		pF
Typical Thermal Resistance (Note 6)	R _{thJL}	20		°C/W
Operating Temperature Range	TJ	-55 to + 150		°C
Storage Temperature Range	T _{STG}	-55 to + 150		°C
lote :	1		REV-7, Nov-2021, K	SDA02

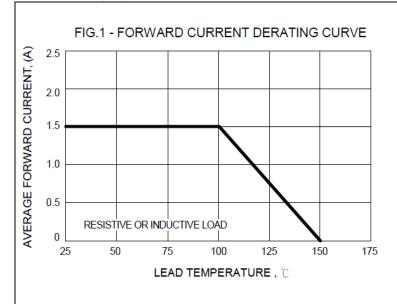
1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

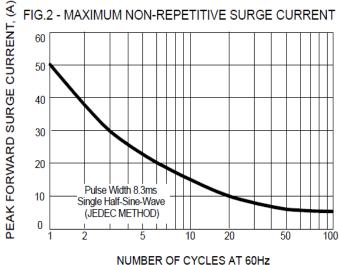
2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

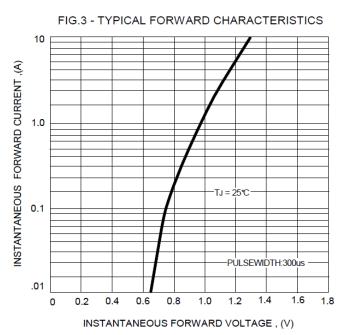
- 4. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 6. Thermal Resistance junction to Lead,

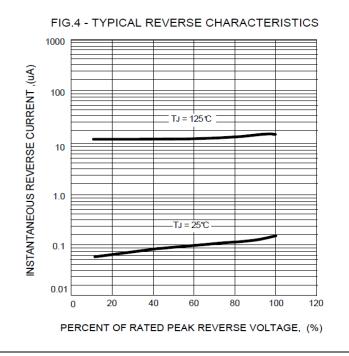
^{3.} Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.









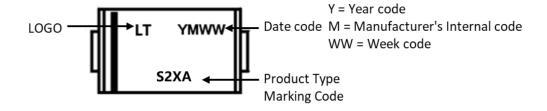




Ordering Information:

Part Number	Pookogo	Packing		
Fait Number	Package	Qty.	Carrier	
S2JA_HF	SMA	5000pcs	Reel	
S2MA_HF	SMA	5000pcs	Reel	

Marking Information:





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