



# 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)

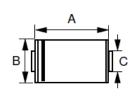
#### **MECHANICAL DATA**

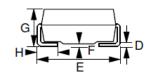
· Package: Molded plastic

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

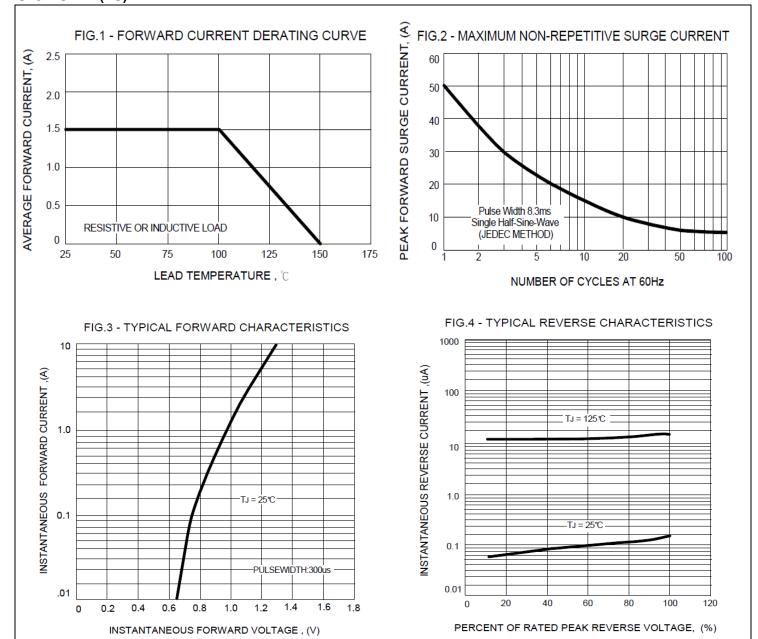
Ratings at 25°C ambient temperature unless otherwise specified.

SYMBOL	S2JA	S2MA	UNIT
$V_{RRM}$	600	1000	V
V <sub>RMS</sub>	420	700	V
V <sub>DC</sub>	600	1000	V
I <sub>(AV)</sub>	1.5		А
I <sub>FSM</sub>	50		А
V <sub>F</sub>		1.15	V
I <sub>R</sub>		5.0 125	uA
t <sub>rr</sub>		1500	ns
I <sup>2</sup> t		10.5	A <sup>2</sup> S
Ст	20		pF
R <sub>thJL</sub>		20	°C/W
TJ	-55	5 to + 150	°C
T <sub>STG</sub>	-55	5 to + 150	°C
	V <sub>RRM</sub> V <sub>RMS</sub> V <sub>DC</sub> I <sub>(AV)</sub> I <sub>FSM</sub> V <sub>F</sub> I <sub>R</sub> t <sub>rr</sub> I <sup>2</sup> t C <sub>T</sub> R <sub>thJL</sub> T <sub>J</sub>	V <sub>RRM</sub> 600 V <sub>RMS</sub> 420 V <sub>DC</sub> 600 I <sub>(AV)</sub> I <sub>FSM</sub> V <sub>F</sub> I <sub>R</sub> t <sub>rr</sub> I <sup>2</sup> t C <sub>T</sub> R <sub>thJL</sub> T <sub>J</sub> -55	V <sub>RRM</sub> 600         1000           V <sub>RMS</sub> 420         700           V <sub>DC</sub> 600         1000           I <sub>(AV)</sub> 1.5           I <sub>FSM</sub> 50           V <sub>F</sub> 1.15           S <sub>C</sub> 1.25           t <sub>rr</sub> 1500           I <sup>2</sup> t         10.5           C <sub>T</sub> 20           R <sub>thJL</sub> 20           T <sub>J</sub> -55 to + 150

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. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 6. Thermal Resistance junction to Lead,

# RATING AND CHARACTERISTIC CURVES S2JA-S2MA(LS)

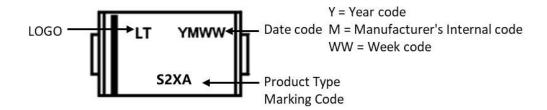




## **Ordering Information:**

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

## **Marking Information:**





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