

A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

S5JC-S5MC(LS)

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 5.0 Ampere

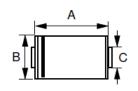
FEATURES

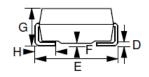
- Glass passivated chip
- · For surface mounted applications
- · Low reverse leakage current
- · Low forward voltage drop
- · High current capability
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- · Package: Molded plastic
- Package Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- · Polarity: Color band denotes cathode
- Weight: 0.21 grams

SMC





SMC						
DIM	MIN	MAX				
Α	6.60	7.11				
В	5.59	6.22				
С	2.92	3.18				
D	0.15	0.31				
Е	7.75	8.13				
F	0.05	0.20				
G	2.01	2.50				
Н	0.76	1.52				
All dimension in millimeter						

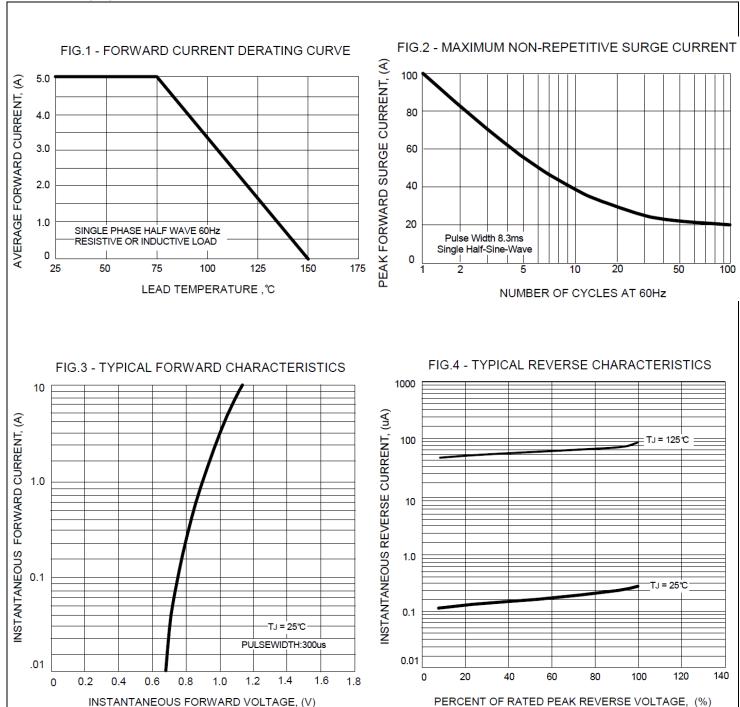
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	S5JC	S5KC	S5MC	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	600	800	1000	V
Maximum Average Forward Rectified Current @T _L =75°C	I _(AV)		5.0		А
Peak Forward Surge Current 8.3 ms single half sine-wave super imposed on rated load	I _{FSM}	100		А	
Peak Forward Surge Current 1.0 ms single half sine-wave	I _{FSM}	200		Α	
Maximum Forward Voltage at 5.0A DC	V _F		1.15		V
$\begin{tabular}{lll} Maximum DC Reverse Current & @ T_J=$25°C \\ at Rated DC Blocking Voltage & @ T_J=$125°C \\ \end{tabular}$	I _R	10 250		uA	
Typical Reverse Recovery Time (Note 4)	t _{rr}		2200		ns
Typical Junction Capacitance (Note 5)	Ст	40			pF
Typical Thermal Resistance (Note 6)	R _{thJL}	10		°C/W	
Typical Thermal Resistance (Note 7)	R_{thJA}	50		°C/W	
Operating Temperature Range	TJ		-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. 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.
- 7. Thermal Resistance junction to Ambient.

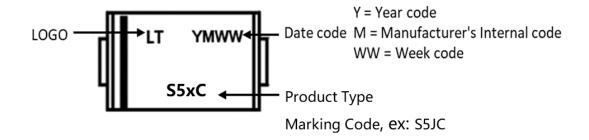




Ordering Information:

Davi Numbar	Dookono	Packing		
Part Number	Package	Qty.	Carrier	
S5JC_HF	SMC	3000pcs	Reel	
S5KC_HF	SMC	3000pcs	Reel	
S5MC_HF	SMC	3000pcs	Reel	

Marking Information:



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