

8A, 400V - 1000V Surface Mount Glass Passivated Rectifiers

FEATURES

- Low forward voltage drop
- Ideal for automated placement
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: DO-214AB (SMC)

Molding compound, UL flammability classification rating 94V-0

Moisture sensitivity: level 1, per J-STD-020

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test **Polarity:** Indicated by cathode band **Weight:** 0.27 g (approximately)









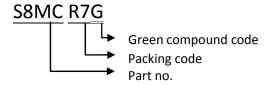
PARAMETER		SYMBOL	S8GC	S8JC	S8KC	S8MC	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	400	600	800	1000	V
Maximum average forward rectified current		I _{F(AV)}	8				Α
Peak forward surge current 8.3 ms single half sine-wave	T _J =25°C	I _{FSM}	200 170				А
	T _J =125°C						
Peak forward surge current 1.0 ms single half sine-wave	T _J =25°C	1	600			А	
	T _J =125°C	I _{FSM}	338				
Maximum instantaneous forward voltage (Note 1) IF= 8 A		V _F	0.985			V	
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C			10			μА	
		I _R –	250				
Typical Junction Capacitance (Note 2)		CJ	48			pF	
Typical thermal resistance		$R_{ heta JL}$	12.5			°C/W	
		$R_{\theta JA}$	44				
Operating junction temperature range		TJ	- 55 to +150			°C	
Storage temperature range		T _{STG}	- 55 to +150			°C	

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Measured at 1.0MHz and applied reverse voltage of 4.0V DC

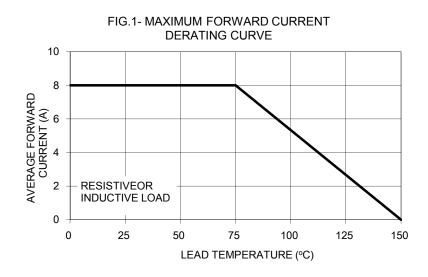


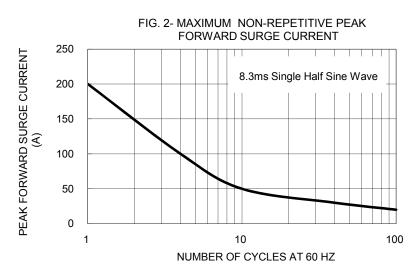
ORDER INFORMATION (EXAMPLE)

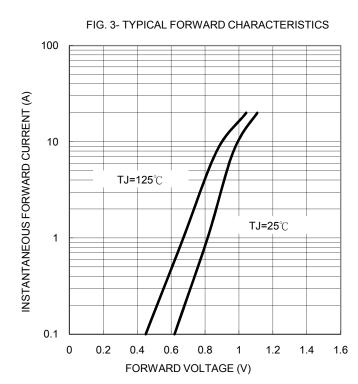


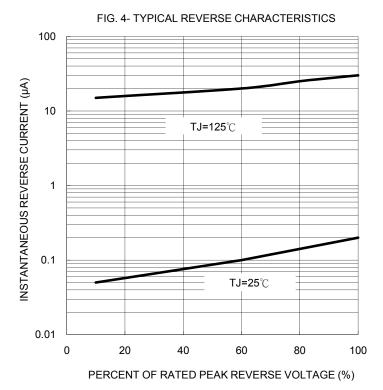
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





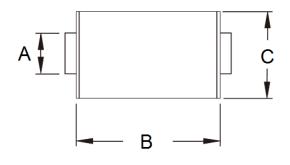


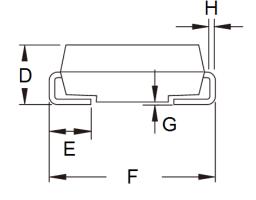


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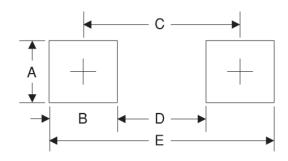
PACKAGE OUTLINE DIMENSIONS DO-214AB (SMC)





DIM.	Unit	(mm)	Unit (inch)		
DIWI.	Min	Max	Min	Max	
Α	2.90	3.20	0.114	0.126	
В	6.60	7.11	0.260	0.280	
С	5.59	6.22	0.220	0.245	
D	2.00	2.62	0.079	0.103	
Е	1.00	1.60	0.039	0.063	
F	7.75	8.13	0.305	0.320	
G	0.10	0.20	0.004	0.008	
Н	0.15	0.31	0.006	0.012	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	3.3	0.130
В	2.5	0.098
С	6.8	0.268
D	4.4	0.173
E	9.4	0.370

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YW = Date Code

F = Factory Code



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