

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)







DO-214AB (SMC)

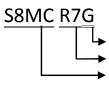
PARAMETER		SYMBOL	S8GC	S8JC	S8KC	S8MC	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	400	600	800	1000	V
Maximum average forward rectified current		I _{F(AV)}	8				А
Peak forward surge current 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		600			А	
	T _J =125°C	IFSM	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				μΑ
		I _R	250				
Typical Junction Capacitance (Note 2)		CJ	48			pF	
Typical thermal resistance		R _{eJL}	12.5				°C/W
		R _{θJA}	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=300 $\mu s,\,1\%$ duty cycle

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



ORDER INFORMATION (EXAMPLE)

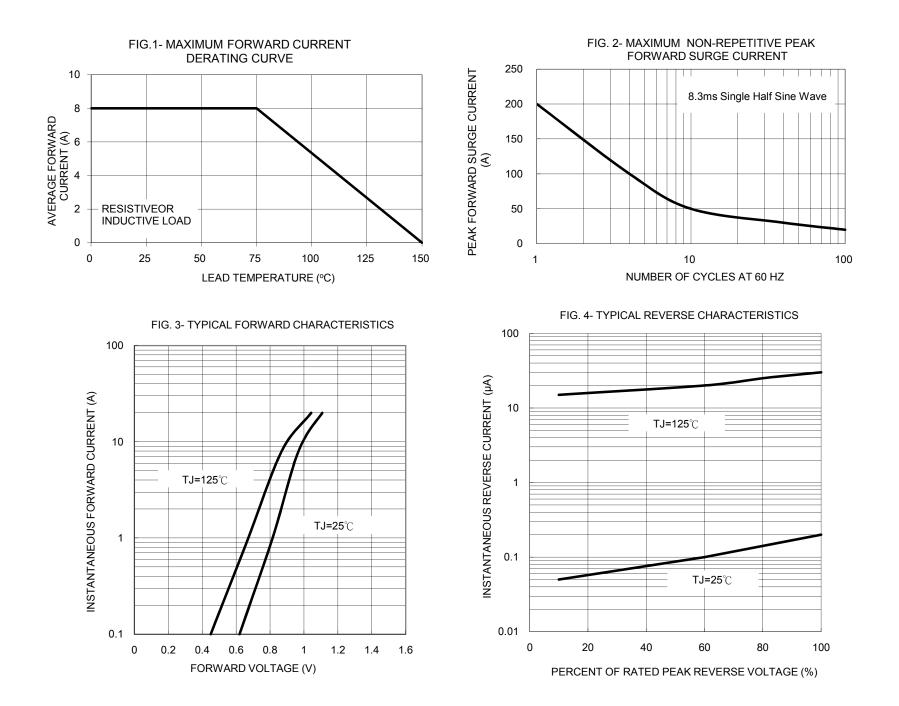


Green compound code Packing code

Part no.

RATINGS AND CHARACTERISTICS CURVES

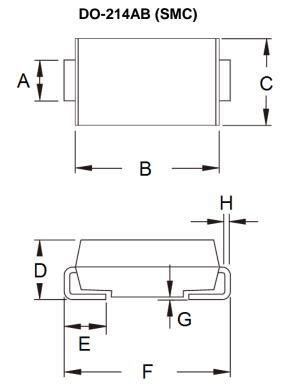
(T_A=25°C unless otherwise noted)





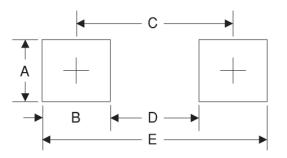
TAIWAN SEMICONDUCTOR

9Ъ



DIM.	Unit	(mm)	Unit (inch)		
Dilvi.	Min Max		Min	Max	
А	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	
E	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



P/N

G YW

F

Symbol	Unit (mm)	Unit (inch)
A	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



- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code



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