- I ast switching for high emblency
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

B

DO-214AA (SMB)

MECHANICAL DATA

Case: DO-214AA (SMB)

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: Indicated by cathode band **Weight:** 0.093 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
PARAMETER	SYMBOL	HS	HS	HS	HS	HS	HS	Н
PARAIVIETER		2A	2B	2D	2F	2G	2J	2
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	80
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	56
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	80
Maximum average forward rectified current	I _{F(AV)}	2						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50						
Maximum instantaneous forward voltage (Note 1) I _F = 2 A	V _F	1.0 1.3			1.			
Maximum reverse current @ rated VR $T_J=25$ °C $T_J=125$ °C	I _R	5 150						
Maximum reverse recovery time (Note 2)	Trr	50			7			
Typical junction capacitance (Note 3)	Cj	50 3						
Typical thermal resistance	$R_{\theta JA}$	80		-				
Operating junction temperature range	TJ	- 55 to +150						
Storage temperature range	T _{STG}	- 55 to +150						

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

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Note 3: Measured at 1 MHz and Applied V_R =4.0 Volts

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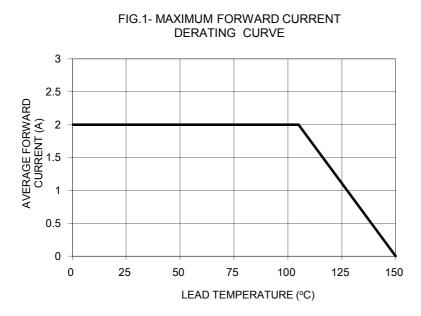
Downloaded from Arrow.com.

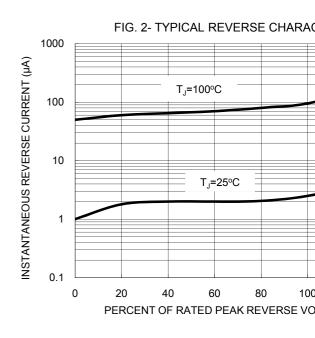
Note 1: "x" defines voltage from 50V (HS2A) to 1000V (HS2M)

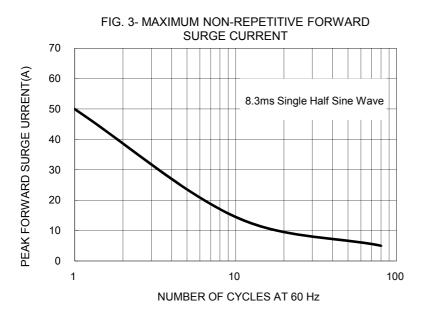
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESC	
HS2M R5	HS2M		R5			
HS2M R5G	HS2M		R5	G	Green	
HS2MHR5	HS2M	Н	R5		AEC-Q1	

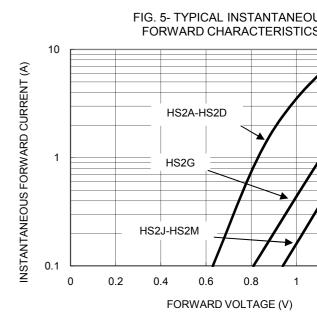
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

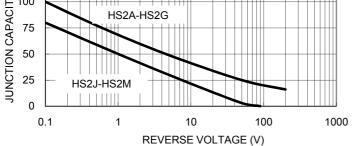


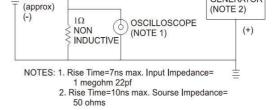






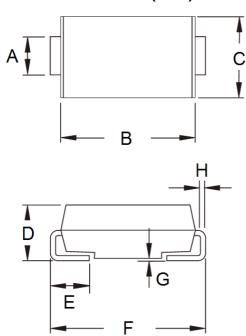
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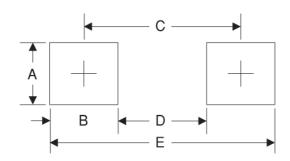


PACKAGE OUTLINE DIMENSIONS DO-214AA (SMB)



DIM.	Unit	(mm)	Unit (inch)			
DIWI.	Min Max		Min	Max		
Α	1.95	2.10	0.077	0.083		
В	4.25	4.75	0.167	0.187		
С	3.48	3.73	0.137	0.147		
D	1.99	2.61	0.078	0.103		
Е	0.90	1.41	0.035	0.056		
F	5.10	5.30	0.201	0.209		
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)
А	2.3	0.091
В	2.5	0.098
С	4.3	0.169
D	1.8	0.071
Е	6.8	0.268

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YW = Date Code

F = Factory Code

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