- Super last recovery time for high entitiency
- 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

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: 0.09 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
PARAMETER	SYMBOL	ES	ES	ES	ES	ES	ES	E
PARAMETER		2A	2B	2C	2D	2F	2G	2
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	50
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	35
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	50
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) @ 2 A	V _F	0.95 1.3						
Maximum reverse current @ rated VR T_J =25 $^{\circ}C$ T_J =125 $^{\circ}C$	I _R	10 350						
Maximum reverse recovery time (Note 2)	Trr	35						
Typical junction capacitance (Note 3)	Cj	25		2	20			
Typical thermal resistance	R _{θJL} R _{θJA}	20 75						
Operating junction temperature range	TJ	- 55 to +150						
Storage temperature range	T _{STG}	- 55 to +150						

Note 1: Pulse test with PW=300 $\mu s,\,1\%$ duty cycle

Note 2: Reverse Recovery Test Conditions: $I_{\text{F}}\text{=}0.5\text{A},\,I_{\text{R}}\text{=}1.0\text{A},\,I_{\text{RR}}\text{=}0.25\text{A}$

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.





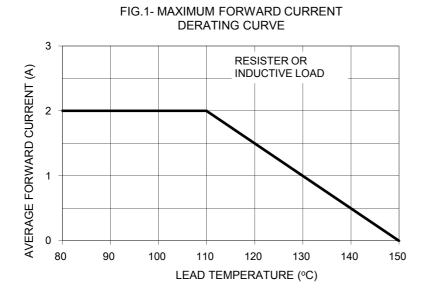
DO-214AA (SMB)

Note 1: "xx" defines voltage from 50V (ES2A) to 600V (ES2J)

EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 PACKING CODE GREE		GREEN COMPOUND CODE	DE		
ES2J R5	ES2J		R5				
ES2J R5G	ES2J		R5	G	Gre		
ES2JHR5	ES2J	Н	R5		AEC-		

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^{\circ}$ C unless otherwise noted)



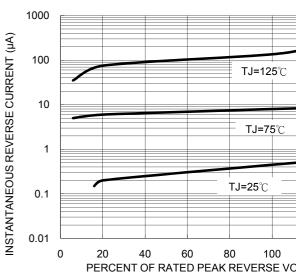
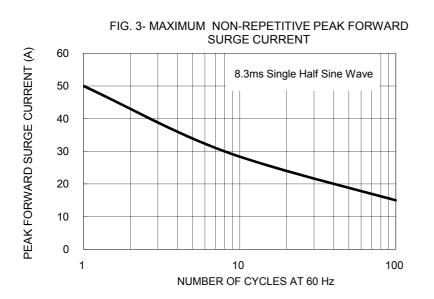
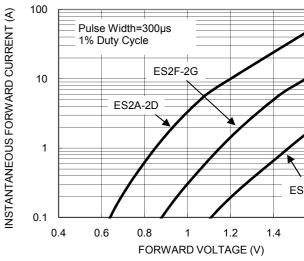


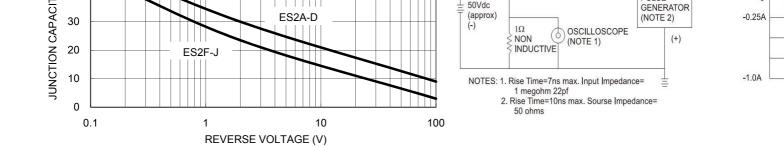
FIG. 2- TYPICAL REVERSE CHARACTE



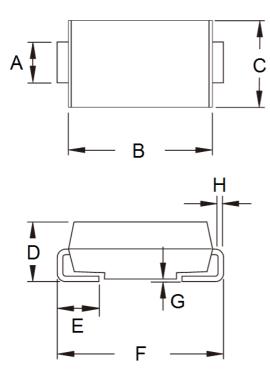




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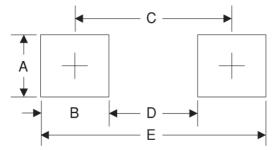


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
	Min	Min Max I		Max		
А	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



P/N

YW

G

F

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
E	6.8	0.268

MARKING DIAGRAM



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

Document Number: DS_D1405037

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