- 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 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: 0.21 g (approximately)





COMF

DO-214AB (SMC)

MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERISTI	CS (T	₄=25 ℃	unless	s other	wise no	oted)	
PARAMETER	SYMBOL	ES	ES	ES	ES	ES	ES	E
PARAIVETER		3A	3B	3C	3D	3F	3G	3
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	5
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	3
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	5
Maximum average forward rectified current	I _{F(AV)}	3						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	100						
Maximum instantaneous forward voltage (Note 1) I _F = 3 A	V _F	0.95 1.3						
Maximum reverse current @ rated VR T_J =25 $^{\circ}C$ T_J =100 $^{\circ}C$	I _R	10 500						
Maximum reverse recovery time (Note 2)	Trr	35						
Typical junction capacitance (Note 3)	Cj	45 30				30		
Typical thermal resistance	R _{θJL} R _{θJA}	12 47						
Operating junction temperature range	TJ	- 55 to +150						
Storage temperature range T _{STG}			- 55 to +150					

Note 1: Pulse test with PW=300 μ s, 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 Reverse Voltage of 4.0V D.C.

Note 1: "xx" defines voltage from 50V (ES3A) to 600V (ES3J)

EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DES	
ES3J R7	ES3J		R7			
ES3J R7G	ES3J		R7	G	Gree	
ES3JHR7	ES3J	Н	R7		AEC-0	

RATINGS AND CHARACTERISTICS CURVES

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

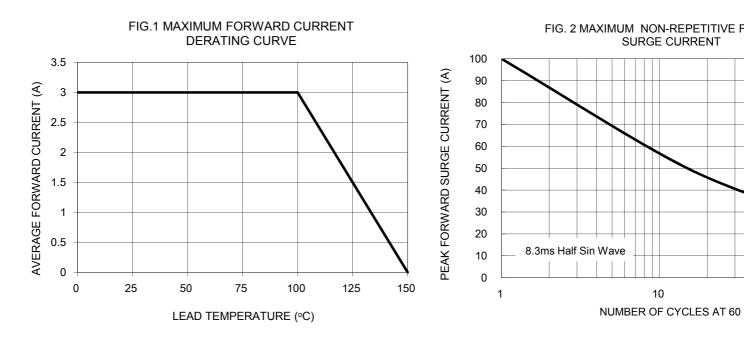
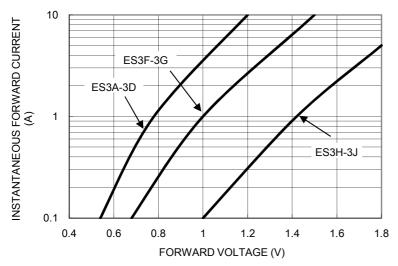
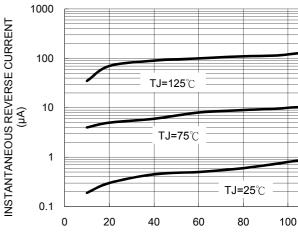


FIG. 3 TYPICAL FORWARD CHARACTERISTICS





PERCENT OF RATED PEAK REVERSE

FIG. 4 TYPICAL REVERSE CHARAC

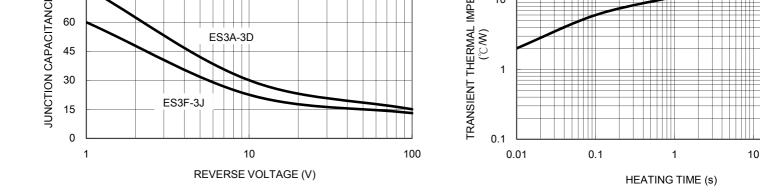
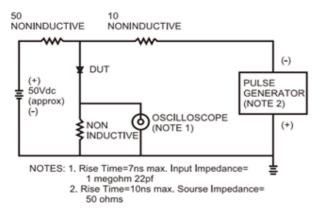
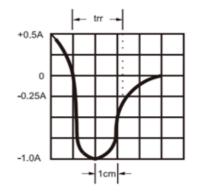
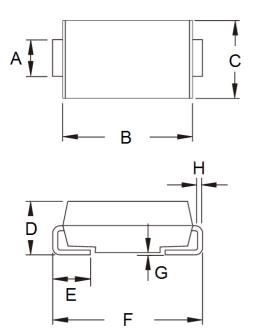


FIG.7- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	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	
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	



В	2.5	0.098
С	6.8	0.268
D	4.4	0.173
E	9.4	0.370

MARKING DIAGRAM

1.000	P/N
P/N	G
GYWF	YW
	F

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

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