



Surface Mount Schottky Barrier Rectifier

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- Guardring for overvoltage protection
- High surge current capability
- 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-214AB (SMC)

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - 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)







DO-214AB (SMC)

	CVMPOL	SS	SS	SS	SS	SS	SS	SS	SS	SS	1
PARAMETER	SYMBOL	32	33	34	35	36	39	310	315	320	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	90	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	63	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	90	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}					3					Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}		100				7	7 0			А
Maximum instantaneous forward voltage (Note 1) I_F = 3 A @ 25°C I_F = 3 A @ 100°C	V _F		0.5 0.4			75 65	_	85 70	-	95 80	V
Maximum reverse current @ rated VR T _J =25 ℃		0.5			0.1						
T _J =100°C	I _R		10			5			-		mA
T _J =125 ℃			-		- 0.5]			
Voltage rate of change (Rated V _R)	dV/dt	10000						V/µs			
Typical thermal resistance	$R_{ heta JL} \ R_{ heta JA}$	17 55			°C/W						
Operating junction temperature range	T _J	- 5	5 to +1	25			- 55 to	o +150			оС
Storage temperature range	T _{STG}				- 5	55 to +1	50				οС

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

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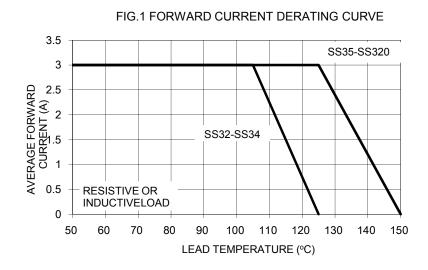
ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
	QUALIFIED		CODE		
000		R7		SMC	850 / 7" Plastic reel
SS3xx (Note 1)	Prefix "H"	R6	Suffix "G"	SMC	3,000 / 13" Paper reel
(14016-1)		M6]	SMC	3,000 / 13" Plastic reel

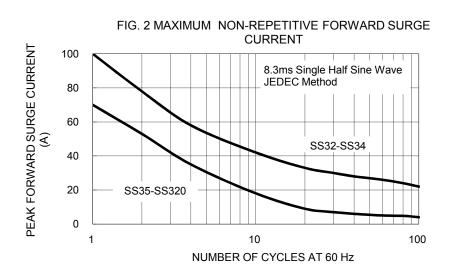
Note 1: "xx" defines voltage from 20V (SS32) to 200V (SS320)

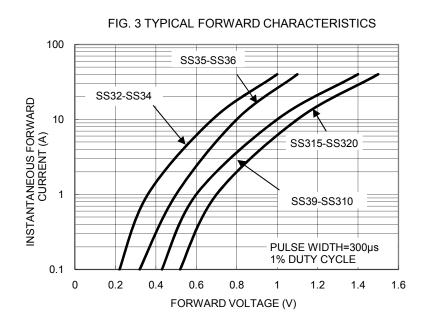
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
SS36 R7	SS36		R7			
SS36 R7G	SS36		R7	G	Green compound	
SS36HR7	SS36	Н	R7		AEC-Q101 qualified	

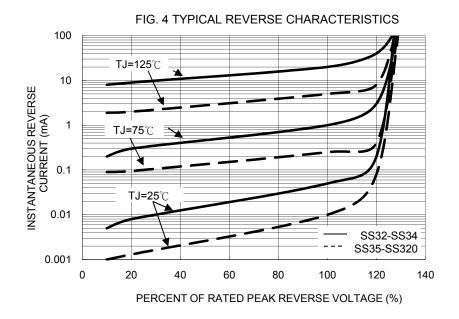
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)









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FIG. 5 TYPICAL JUNCTION CAPACITANCE

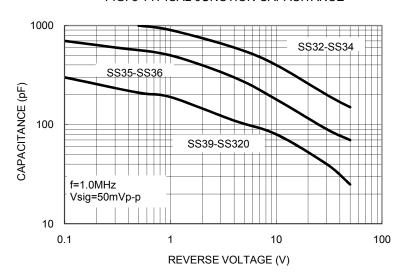
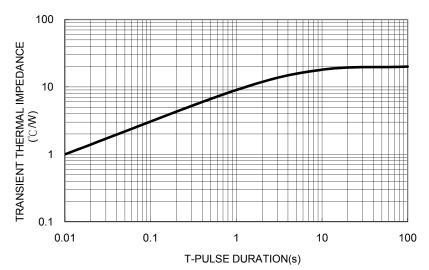
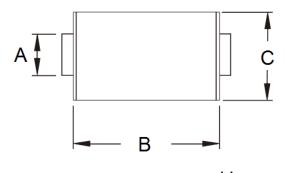
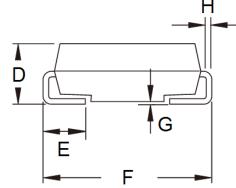


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE



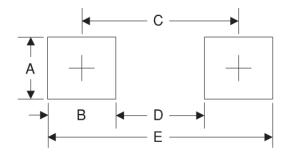
PACKAGE OUTLINE DIMENSIONS





DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	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	
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



Symbol	Unit (mm)	Unit (inch)
А	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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