



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



Case: DO-214AA (SMB)

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:** 0.093 g (approximately)







DO-214AA (SMB)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	SSL22	SSL23	SSL24	Unit
Marking Code		SL22	SL23	SL24	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V _{RMS}	14	21	28	V
Maximum DC blocking voltage	V _{DC}	20	30	40	V
Maximum average forward rectified current	I _{F(AV)}	2			Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	80		А	
Maximum instantaneous forward voltage (Note 1) I_F = 2 A	V _F	0.41		V	
Maximum reverse current @ rated VR T _J =25 °C		0.4			
T _J =100°C	I _R	50		60	mA
Typical thermal resistance	$R_{ heta JL} \ R_{ heta JA}$	25 70		°C/W	
Operating junction temperature range	TJ	T _J - 55 to +125		оС	
Storage temperature range	T _{STG}	- 55 to +150 °C		οС	

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





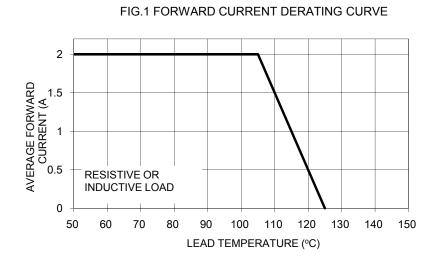
ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
	QUALIFIED		CODE		
001.0		R5		SMB	850 / 7" Plastic reel
SSL2x (Note 1)	Prefix "H"	R4	Suffix "G"	SMB	3,000 / 13" Paper reel
(14010-1)		M4		SMB	3,000 / 13" Plastic reel

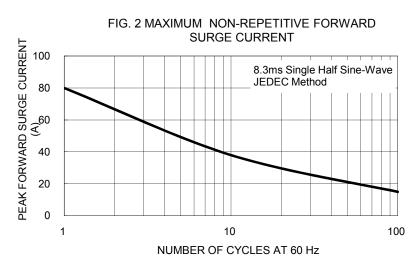
Note 1: "x" defines voltage from 20V (SSL22) to 40V (SSL24)

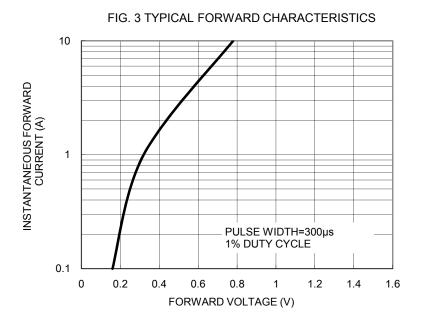
EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
SSL24 R5	SSL24		R5		
SSL24 R5G	SSL24		R5	G	Green compound
SSL24HR5	SSL24	Н	R5		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







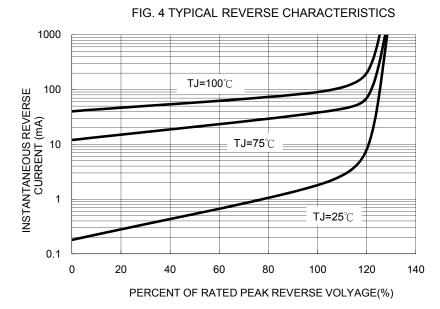
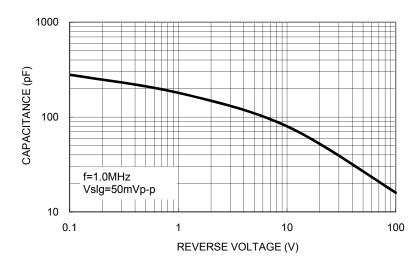
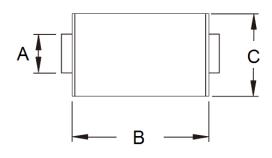


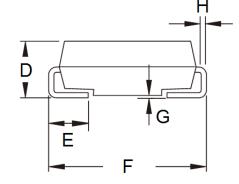


FIG. 5 TYPICAL JUNCTION CAPACITANCE



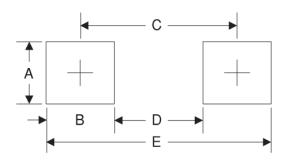
PACKAGE OUTLINE DIMENSIONS





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



P/N = Marking Code G = Green Compound YW = Date Code

F = Factory Code

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