

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
- AEC-Q101 qualified



DO-214AA (SMB)





MECHANICAL DATA

Case: DO-214AA (SMB)

Molding compound, UL flammability classification rating 94V-0 Standard Part No. with suffix "H" means Automotive grade **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Indicated by cathode band **Weight:** 90 mg (approximately)

PARAMETER	SYMBOL	SSH210	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V _{RMS}	70	V
Maximum DC blocking voltage	V _{DC}	100	V
Maximum average forward rectified current	I _{F(AV)}	2	A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	75	А
Peak repetitive reverse surge current at tp=2µs, 1kHz	I _{RRM}	1	A
Maximum instantaneous forward voltage (Note 1) I _F = 2 A @ 25°C I _F = 2 A @ 125°C	V _F	0.79 0.65	V
Voltage rate of change (Rated V _R)	dV/dt	10000	V/µs
Maximum reverse current @ rated VR T _J =25 °C	,	1	μА
T _J =125 °C	I _R	1	mA
Typical thermal resistance	$R_{ heta JL}$	24	°C/W
Operating junction temperature range	T _J	- 55 to +175	оС
Storage temperature range	T _{STG}	- 55 to +175	οС

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

Document Number: DS_D1408056



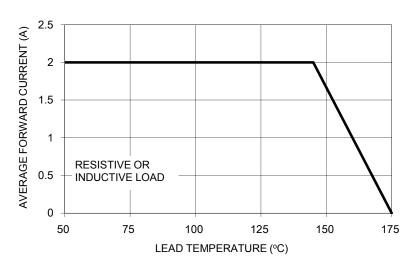
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKAGE	PACKING	
SSH210		R5	SMB	850 / 7" Plastic reel	
	Н	R4	SMB	3,000 / 13" Paper reel	
		M4	SMB	3,000 / 13" Plastic reel	

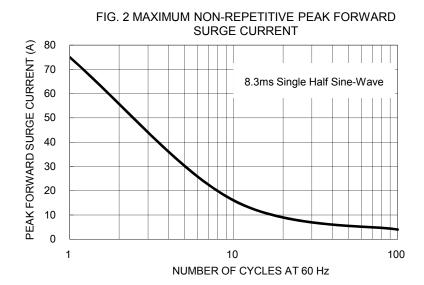
EXAMPLE				
PREFERRED	PART NO.	PART NO.	PACKING CODE	DESCRIPTION
PART NO.	PART NO.	SUFFIX	FACKING CODE	DESCRIPTION
SSH210HR5	SSH210	Н	R5	Automotive grade

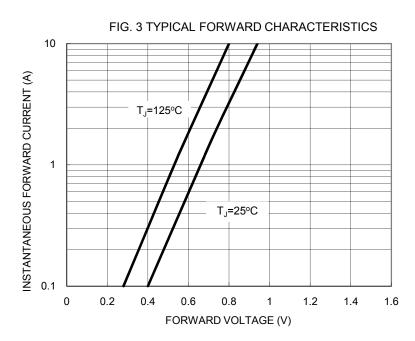
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









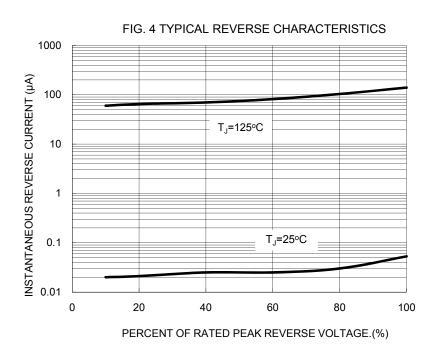




FIG. 5 TYPICAL JUNCTION CAPACITANCE

1000

(b)

100

f=1.0MHz

Vslg=50mVp

10

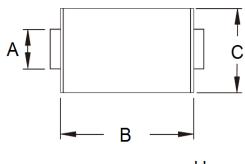
0.1

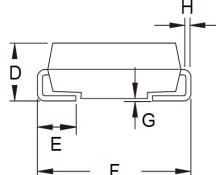
1 10 100

REVERSE VOLTAGE (V)

PACKAGE OUTLINE DIMENSIONS

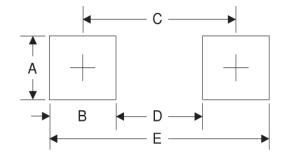
DO-214AA (SMB)





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
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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