# imall

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# **Schottky Barrier Rectifier**

# FEATURES

- Low forward voltage drop
- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- 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-204AL (DO-41)

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

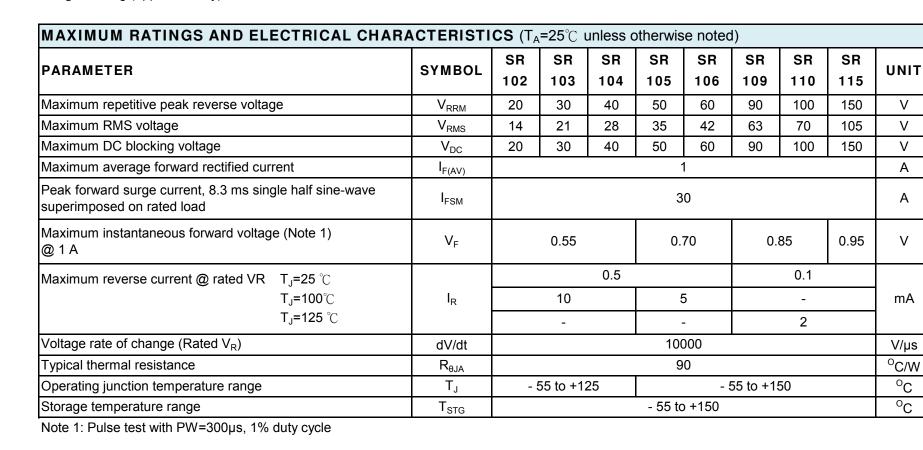
**Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test,

with prefix "H" on packing code meet JESD 201 class 2 whisker test **Weight:** 0.33g (approximately)



DO-204AL (DO-41)





# SR102 thru SR115

Taiwan Semiconductor

ORDERING INFORMATION							
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
	QUALIFIED		CODE				
SR1xx (Note 1)	Prefix "H"	A0	- Suffix "G"	DO-41	3,000 / Ammo box (52mm taping)		
		R0		DO-41	5,000 / 13" Paper reel		
		R1		DO-41	5,000 / 13" Paper reel (Reverse)		
		B0		DO-41	1,000 / Bulk packing		

Note 1: "xx" defines voltage from 20V (SR102) to 150V (SR115)

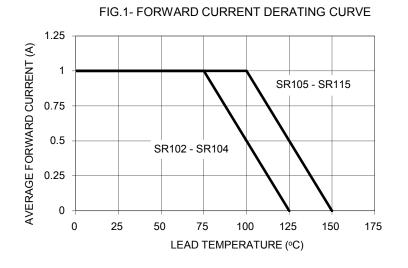
# FXAMPLE

PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
SR106 A0	SR106		A0					
SR106 A0G	SR106		A0	G	Green compound			
SR106HA0	SR106	Н	A0		AEC-Q101 qualified			

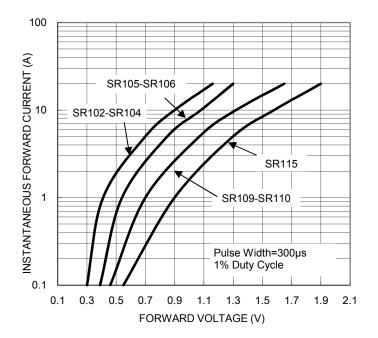
50

# **RATINGS AND CHARACTERISTICS CURVES**

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



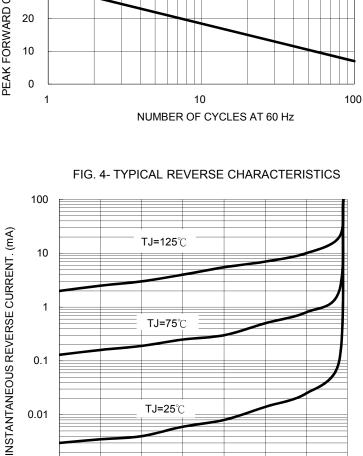
#### FIG. 3- TYPICAL FORWARD CHARACTERISTICS



PEAK FORWARD CURRENT (A) 40 30 20 10 0 1 10 100 NUMBER OF CYCLES AT 60 Hz

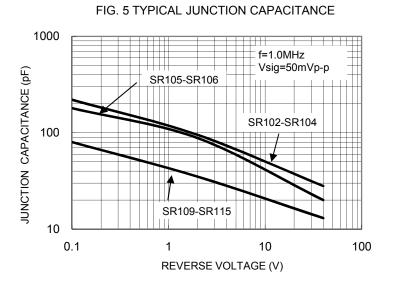
SURGE CURRENT

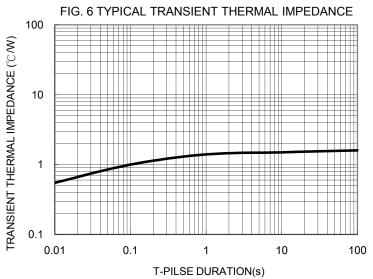
FIG. 2- MAXIMUM NON-REPETITIVE FORWARD



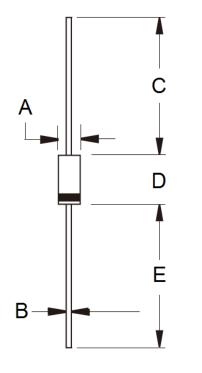
<sup>0.1</sup> TJ=25℃ 0.01 0.001 0 20 40 60 80 100 120 140 PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)





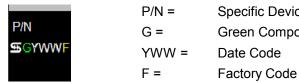


# PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)	
Divi.	Min	Max	Min	Max
А	2.00	2.70	0.079	0.106
В	0.71	0.86	0.028	0.034
С	25.40	-	1.000	-
D	4.20	5.20	0.165	0.205
E	25.40	-	1.000	-

#### **MARKING DIAGRAM**



Specific Device Code Green Compound

Document Number: D1308011



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