



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



DO-201AD





Version: F13

MECHANICAL DATA

Case: DO-201AD

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

Weight: 1.1 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	SR1202	SR1203	SR1204	UNIT	
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)}	12			Α	
Repetitive peak forward current f > 15Hz	I _{FRM}	55			Α	
Peak forward surge current, 50/60 Hz single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	280 / 320			А	
Rating for fusing t < 10ms	l ² t	390			A ² s	
Maximum instantaneous forward voltage @5 A	V _F	0.45			V	
(Note 1) @12 A		0.55				
Maximum DC reverse current @T _J =25 °C	I _R	500			μA	
at rated DC blocking voltage @T _J =100 °C		20			mA	
-	$R_{ heta JL}$	3			0.5	
Typical thermal resistance	$R_{ heta JA}$	24			°C/W	
Junction temperature range	_	- 50 to + 150			оС	
- in DC forward mode	TJ	<=200				
Storage temperature range	T _{STG}		- 55 to + 175	οС		

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

Document Number: DS_D1308044



ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
SR12xx (Note 1)	Prefix "H"	A0	Suffix "G"	DO-201AD	500 / Ammo box	
		R0		DO-201AD	1,250 / 13" Paper reel	
		B0		DO-201AD	500 / Bulk packing	
		X0		DO-201AD	Forming	

Note 1: "xx" defines voltage from 20V (SR1202) to 40V (SR1204)

EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND	DESCRIPTION		
SR1204 A0	SR1204		A0				
SR1204 A0G	SR1204		A0	G	Green compound		
SR1204HA0	SR1204	Н	A0		AEC-Q101 qualified		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



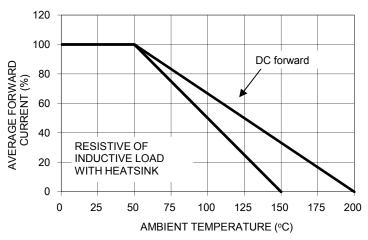
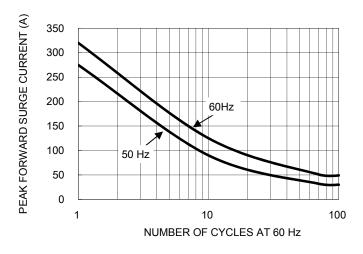
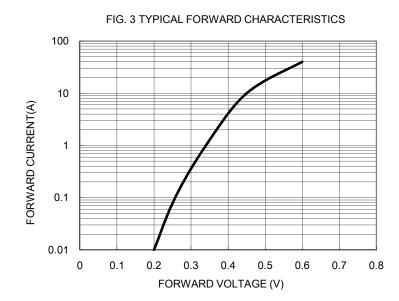
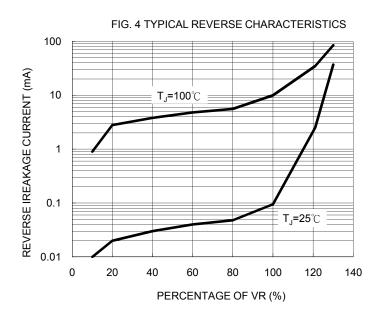


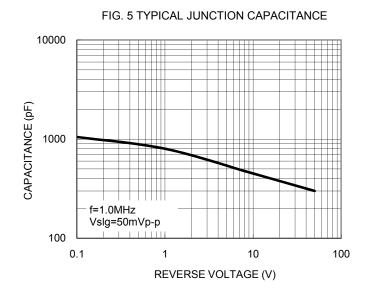
FIG. 2 MAXIMUM FORWARD SURGE CURRENT

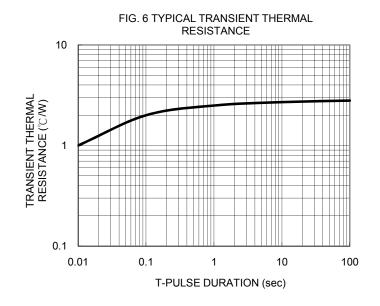




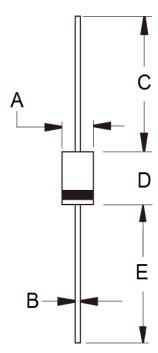








PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	5.00	5.60	0.197	0.220	
В	1.20	1.30	0.048	0.052	
С	25.40	-	1.000	-	
D	8.50	9.50	0.335	0.375	
Е	25.40	-	1.000	-	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





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<u>SR1202 SR1203 SR1204 SR1202 R0 SR1202 R0G SR1203 HR0G SR1204 HR0G SR1202 HR0G SR1204 R0G SR1204 HR0G SR1203 R0G SR1202 HB0G SR1203 A0G SR1204 A0G SR1204 HA0G SR1202 A0G SR1202 B0G SR1202 HA0G SR1204 H</u>