



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



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)

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 0.55			V
(Note 1) @12 A	VF				
Maximum DC reverse current @T _J =25 °C		500			μΑ
at rated DC blocking voltage @T _J =100 ℃	I _R	20			mA
-	$R_{ heta JL}$	3 24			°C/W
Typical thermal resistance	$R_{ hetaJA}$				
Junction temperature range		- 50 to + 150		°C	
- in DC forward mode	T _J	<=200			
Storage temperature range	T _{STG}		- 55 to + 175		оС

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		
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)



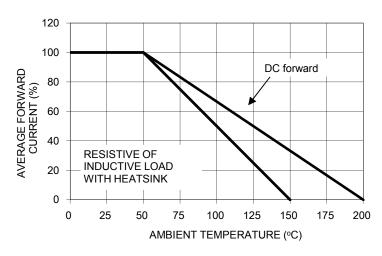
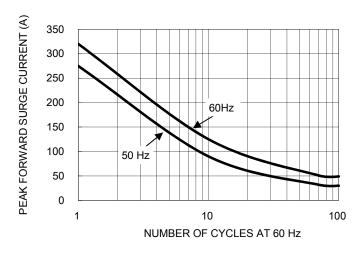
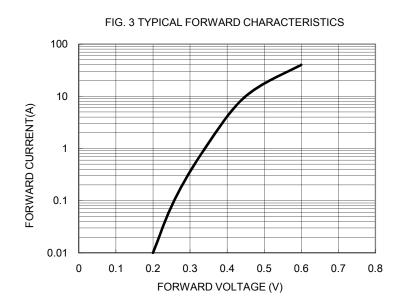


FIG. 2 MAXIMUM FORWARD SURGE CURRENT





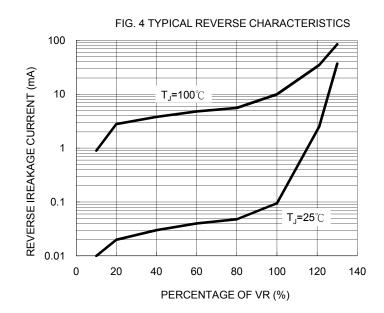




FIG. 5 TYPICAL JUNCTION CAPACITANCE

10000

(G)

1000

f=1.0MHz

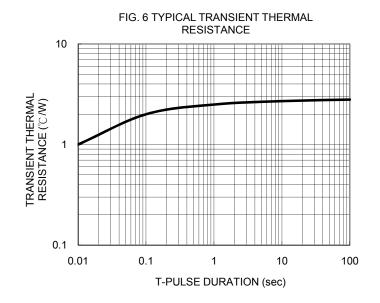
Vslg=50mVp-p

0.1

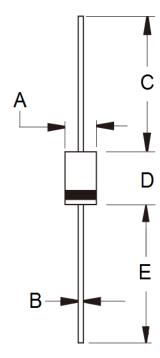
1 10

100

REVERSE VOLTAGE (V)



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	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	
E	25.40	-	1.000	-	

MARKING DIAGRAM

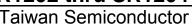


P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code

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