



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



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)



MAXIMUM RATINGS AND ELECTRICAL CHAR	RACTERISTI	CS (T _A	_=25℃ ι	unless o	otherwis	e noted	d)			
PARAMETER	SYMBOL	SR 102	SR 103	SR 104	SR 105	SR 106	SR 109	SR 110	SR 115	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	63	70	105	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	90	100	150	V
Maximum average forward rectified current	I _{F(AV)}	1						Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30				Α				
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F		0.55 0.		70	0.85		0.95	V	
Maximum reverse current @ rated VR T _{.I} =25 °C		0.5				0.1				
T _J =100°C	I_{R}		10		5			-		mA
T _J =125 ℃			-			-		2		1
Voltage rate of change (Rated V _R)	dV/dt	10000				V/µs				
Typical thermal resistance	$R_{\theta JA}$	90			°C/W					
Operating junction temperature range	TJ	- 55 to +125 - 55 to +150			оС					
Storage temperature range	T _{STG}	- 55 to +150				οС				

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

Document Number: D1308011 Version: F13



ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
		A0		DO-41	3,000 / Ammo box (52mm taping)	
SR1xx	Prefix "H"	R0	Suffix "G"	DO-41	5,000 / 13" Paper reel	
(Note 1)	FIGUX II	R1		DO-41	5,000 / 13" Paper reel (Reverse)	
		В0		DO-41	1,000 / Bulk packing	

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

EXAMPLE						
PREFERRED P/N PART	DADT NO	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION	
T KEI EKKED I /N	TAKT NO.	QUALIFIED	TACKING CODE	CODE		
SR106 A0	SR106		A0			
SR106 A0G	SR106		A0	G	Green compound	
SR106HA0	SR106	Н	A0		AEC-Q101 qualified	

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

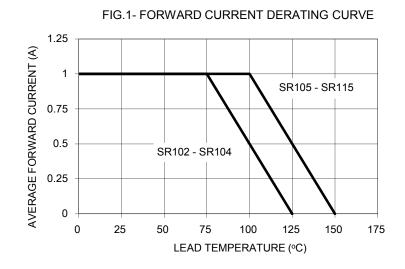


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

50

40

30

10

10

NUMBER OF CYCLES AT 60 Hz

FIG. 3- TYPICAL FORWARD CHARACTERISTICS

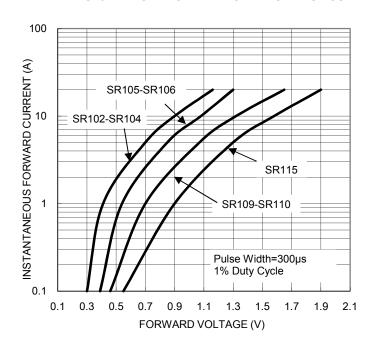
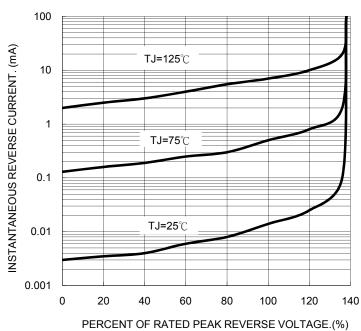
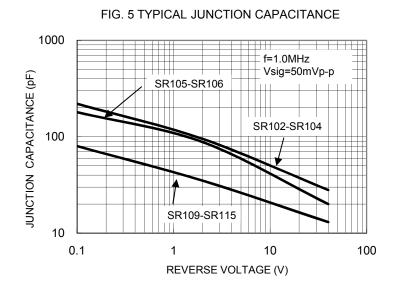


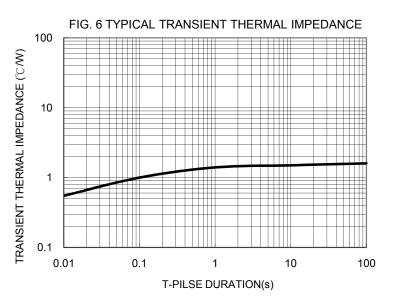
FIG. 4- TYPICAL REVERSE CHARACTERISTICS



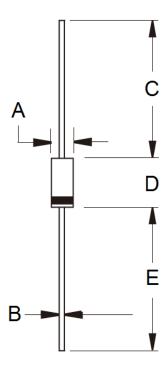
Document Number: D1308011 Version: F13







PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
UIIVI.	Min	Max	Min	Max		
Α	2.00	2.70	0.079	0.106		
В	0.71	0.86	0.028	0.034		
С	25.40	ı	1.000	-		
D	4.20	5.20	0.165	0.205		
Е	25.40	-	1.000	-		

MARKING DIAGRAM

P/N SGYWWF P/N = Specific Device Code G = Green Compound YWW = Date Code

F = Date Code F = Factory Code





Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied,to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: D1308011 Version: F13