



Schottky Barrier Rectifier

FEATURES

- Low forward voltage drop
- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- For use as Bypass diode in Solar application.
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



R-6





MECHANICAL DATA

Case: R-6

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: 1.7 g (approximately)

ARACTERIS	TICS (T _A =25°	C unless other	wise noted)	
SYMBOL	SR1502	SR1503	SR1504	UNIT
V_{RRM}	20	30	40	V
V_{RMS}	14	21	28	V
V_{DC}	20	30	40	V
I _{F(AV)}	15			Α
I _{FRM}	60			Α
I _{FSM}	300 / 340			А
l ² t	390			A ² s
V _F	0.45 0.55			V
I _R	500			μA
	20			mA
$R_{ heta JL}$	2.5		°C/W	
$R_{\theta JA}$	25			
T _J	- 50 to +150		оС	
	<=200			
T _{STG}		- 55 to +175		°С
	SYMBOL V _{RRM} V _{RMS} V _{DC} I _{F(AV)} I _{FRM} I ² t V _F I _R R _{θJL} R _{θJA} T _J	SYMBOL SR1502 V _{RRM} 20 V _{RMS} 14 V _{DC} 20 I _{F(AV)} I _{FRM} I _{FSM} I ² t V _F I _R R _{θJL} R _{θJA} T _J T _J	SYMBOL SR1502 SR1503 V _{RRM} 20 30 V _{RMS} 14 21 V _{DC} 20 30 I _{F(AV)} 15 I _{FRM} 60 I _{FSM} 300 / 340 I ² t 390 V _F 0.45 0.55 500 I _R 20 R _{θJL} 2.5 R _{θJA} 25 T _J -50 to +150 <=200	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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



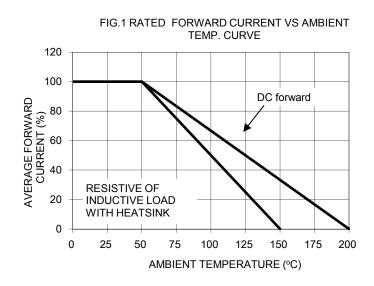
ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
0045		A0		R-6	700 / Ammo box	
SR15xx (Note 1)	Prefix "H"	R0	Suffix "G"	R-6	1,000 / 13" Paper reel	
(14010-1)		B0		R-6	400 / Bulk packing	

Note 1: "xx" defines voltage from 20V (SR1502) to 40V (SR1504)

EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION		
		QUALIFIED		CODE			
SR1504 A0	SR1504		A0				
SR1504 A0G	SR1504		A0	G	Green compound		
SR1504HA0	SR1504	Н	A0		AEC-Q101 qualified		

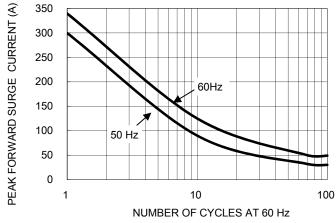
RATINGS AND CHARACTERISTICS CURVES

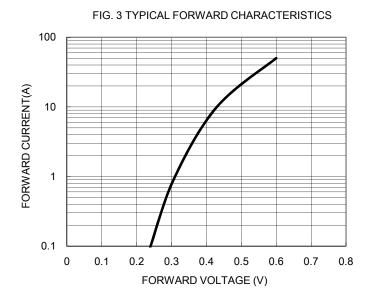
(TA=25°C unless otherwise noted)

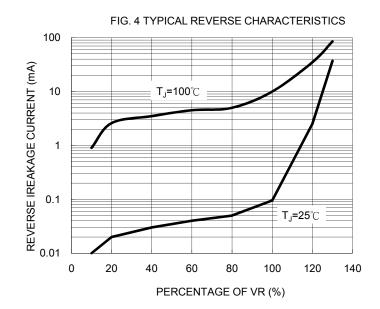


350 300 250 200

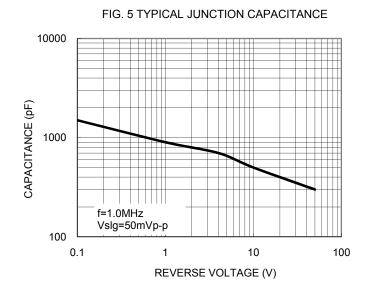
FIG. 2 MAXIMUM FORWARD SURGE CURRENT

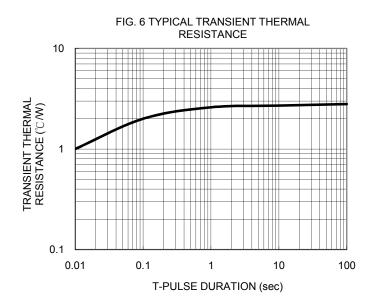




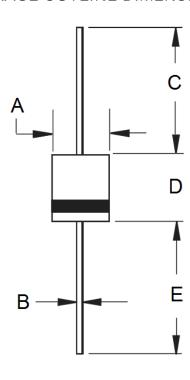








PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	6.80	7.20	0.268	0.283	
В	1.20	1.30	0.047	0.051	
С	25.40	-	1.000	-	
D	8.60	9.10	0.339	0.358	
Е	25.40	-	1.000	-	

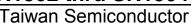
MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code

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