



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: TS-1

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - halogen-free

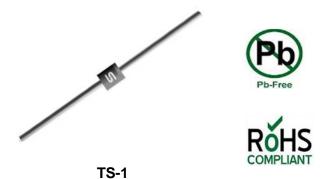
Base P/N with prefix "H" on packing code - AEC-Q101 qualified

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: 0.2g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER	SYMBOL	SRT 12	SRT 13	SRT 14	SRT 15	SRT 16	SRT 19	SRT 110	SRT 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	l _{FSM}	25				Α				
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F		0.55		0.70 0.		80	0.90	V	
Maximum reverse current @ rated VR T _J =25 ℃		0.5			0.1					
T _J =100℃	I_{R}	10		5		-			mA	
T _J =125 ℃			-	-		2			7	
Typical junction capacitance (Note 2)	Cj	110		8	80 2		28		pF	
Typical thermal resistance	$R_{ heta JA}$	50					°C/W			
Operating junction temperature range	T _J	- 55 to +125 - 55 to +150			οС					
Storage temperature range	T _{STG}	- 55 to +150						οС		

Schottky Barrier Rectifier

Note 1: Pulse test with PW=300 μ s, 1% duty cycle Note 2: Measured at 1.0 MHz and Applied V_R =4.0 Volts

Document Number: DS_D1308042



ORDERING INFORMATION							
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
	QUALIFIED		CODE				
SRT1xx (Note 1)	Prefix "H"	A0		TS-1	3,000 / Ammo box (52mm taping)		
		A1	Suffix "G"	TS-1	3,000 / Ammo box (26mm taping)		
		R0	Sullix G	TS-1	5,000 / 13" Paper reel		
		В0		TS-1	1,000 / Bulk packing		

Note 1: "xx" defines voltage from 20V (SRT12) to 150V (SRT115)

EXAMPLE							
PREFERRED P/N	PART NO. AEC-Q101		PACKING CODE	GREEN COMPOUND	DESCRIPTION		
		QUALIFIED		CODE			
SRT16 A0	SRT16		A0				
SRT16 A0G	SRT16		A0	G	Green compound		
SRT16HA0	SRT16	Н	A0		AEC-Q101 qualified		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

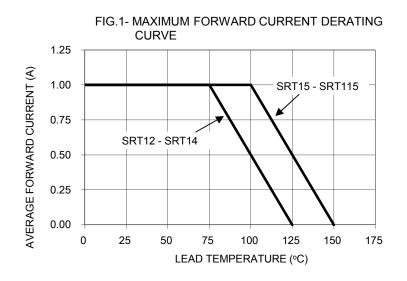
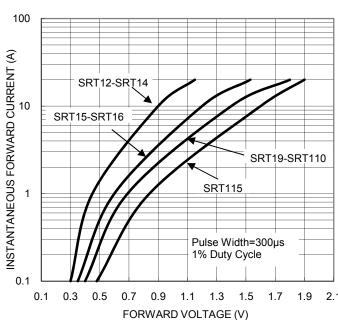


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

50
40
40
20
10
1 10 100
NUMBER OF CYCLES AT 60 Hz

FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



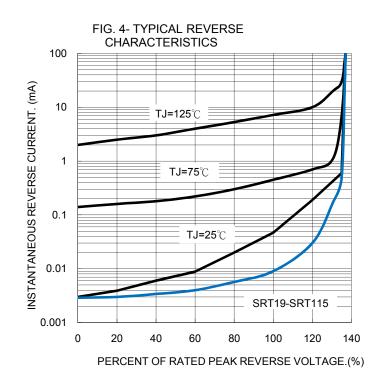




FIG. 5- TYPICAL JUNCTION CAPACITANCE

1000

SRT12-SRT14

SRT15-SRT16

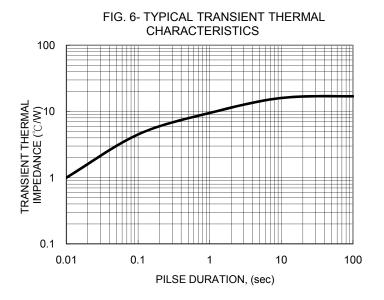
SRT19-SRT115

10

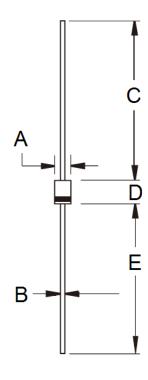
0.1

1 10

REVERSE VOLTAGE (V)



PACKAGE OUTLINE DIMENSIONS



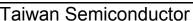
DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	2.00	2.70	0.079	0.106		
В	0.53	0.64	0.021	0.025		
С	25.40	-	1.000	-		
D	3.00	3.30	0.118	0.130		
E	25.40	-	1.000	-		

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YW = Date Code F = Factory Code





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Document Number: DS_D1308042 Version: H13

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