

SR1502 - SR1504 15.0AMPS. Schottky Barrier Rectifiers **R-6**

Features

- Low power loss, high efficiency.
- High current capability, Low VF.
- ♦ High reliability
- High surge current capability.
- Epitaxial construction.
- Guard-ring for transient protection.
- ♦ For use as Bypass diode in Solar application.
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode.
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 1.70 grams

Ordering Information (example)

Part No.	Package	Packing	INNER TAPE	Packing code	Green Compound Packing code
SR1502	R-6	700 / AMMO box	52mm	A0	A0G

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

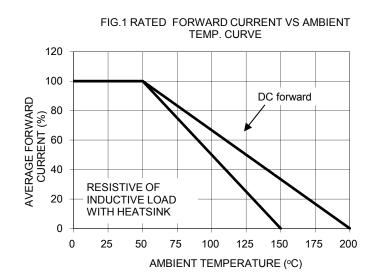
Type Number	Symbol	SR1502	SR1503	SR1504	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Maximum Average Forward Rectified Current. R-load	I _{F(AV)}		Α		
Repetitive Peak Forward Current f > 15Hz	I _{FRM}		Α		
Peak Forward Surge Current, 50/60 Hz Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	300 / 340			А
Maximum Instantaneous Forward Voltage @5 A @T _A =25°C (Note 1)	V _F	0.45 0.55			V
Maximum DC Reverse Current	I _R	500 20			uA mA
Rating for fusing t < 10ms @T _A =25°C	l ² t	390			A ² S
Maximuml Thermal Resistance	$R_{ heta JA} \ R_{ heta JL}$	25 2.5			°C/W
Junction Temperature Range - in DC forward mode	TJ	- 50 to + 150 <=200			°С
Storage Temperature Range	T _{STG}		- 50 to + 175		

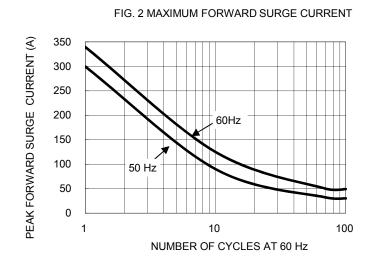
Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

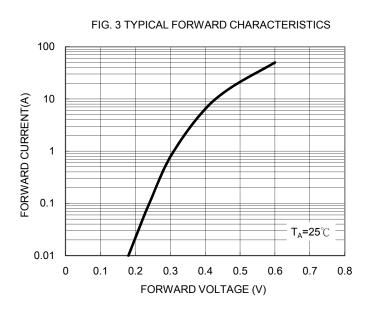


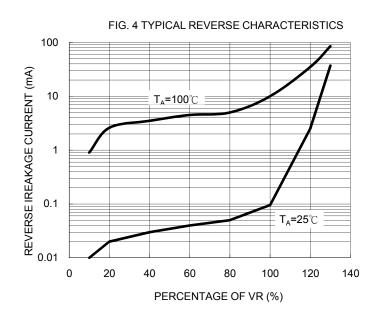


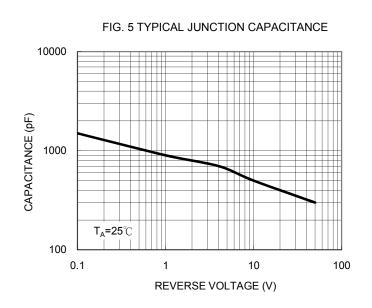
RATINGS AND CHARACTERISTIC CURVES (SR1502 THRU SR1504)

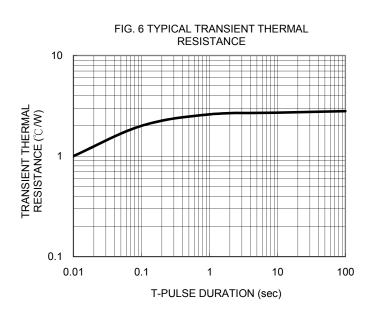












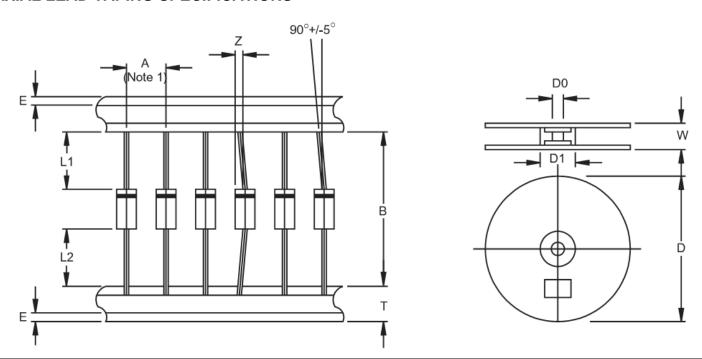


Ordering information

Part No.	Package	Packing	INNER TAPE	Packing code	Green Compound Packing code
SR15xx (Note)	R-6	700 / AMMO box	52mm	A0	A0G
	R-6	1 K / 13" Reel	52mm	R0	R0G
	R-6	400 / Bulk packing		В0	B0G

Note: "xx" is Device Code from "02" thru "04".

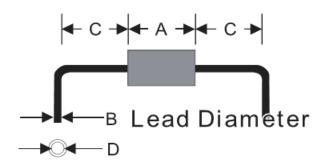
AXIAL LEAD TAPING SPECIFICATIONS



Outline	Α	В	Z	Т	Е	L1-L2	D	D1	D0	W
	±0.5	±1.5	MAX	±0.4	MAX	MAX		±0.3	±0.4	±1.0
R-6	10	52.4	1.2	6	8.0	1	330	85.7	16.6	76

Unit (mm)

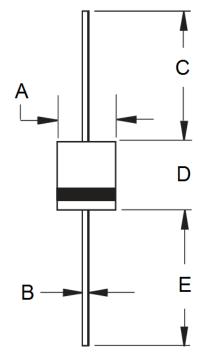
Suggested Mounting Hole Rule



Symbol	Unit(mm)
Α	8.9
В	1.3
С	4.0
D	1.5



Dimensions



DIM.	Unit((mm)	Unit(inch)		
Dilvi.	Min	Min Max		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