

SRT12 THRU SRT110

1.0 AMP. Schottky Barrier Rectifiers



Voltage Range 20 to 100 Volts Current 1.0 Ampere

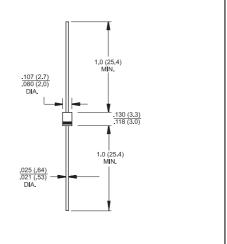
TS-1

Features

- Plastic material used carries Underwriters Laboratory Classification 94V-0
- ♦ Metal silicon junction, majority carrier conduction
- ♦ Low power loss, high efficiency
- ♦ High current capability, low forward voltage drop
- High surge capability
- ♦ Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ✦ High temperature soldering guaranteed: 260°C/10seconds, 0.375" (9.5mm) lead length at 5 lbs. (2.3 kg) tension

Mechanical Data

- Cases: Molded plastic body
- Terminals: Plated Axial leads, solderable per MIL-STD-750, Method 2026
- ♦ Polarity: Color band denotes cathode end
- ♦ Mounting position: Any
- ♦ Weight: 0.20 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°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	SRT 12	SRT 13	SRT 14	SRT 15	SRT 16	SRT 19	SRT 110	Units
Maximum Recurrent Peak Reverse Voltage	V_{RM}	20	30	40	50	60	90	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	lo	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	25.0						Α	
Maximum Instantaneous Forward Voltage @ 1.0A	V_{F}	0.55			0.70		0.	80	V
Maximum DC Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =100°C	I _R	0.5 10.0 -					mA mA		
Typical Thermal Resistance (Note 1)	$R heta_JA$	50						\$	
Typical Junction Capacitance (Note 2)	Cj	110		80		28		pF	
Operating Junction Temperature Range	TJ	- 65 to + 125)	Q		
Storage Temperature Range	T_{stg}	- 65 to + 150							Q

Notes: 1. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

2. Measured at 1.0 MHz and Applied VR=4.0 Volts



