


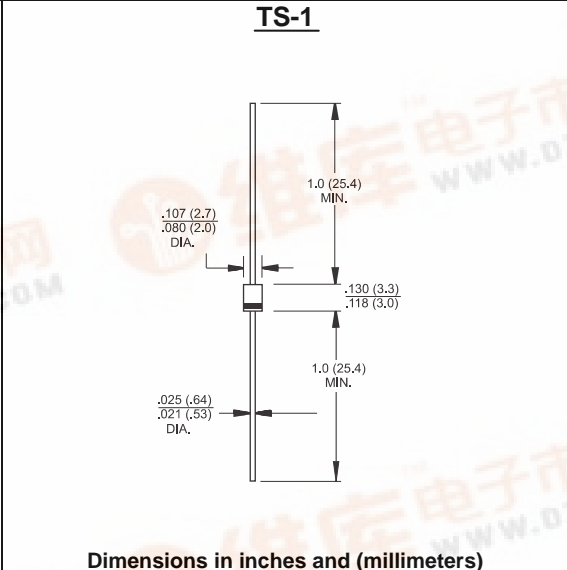


SRT12 THRU SRT110

1.0 AMP. Schottky Barrier Rectifiers

	Voltage Range 20 to 100 Volts Current 1.0 Ampere
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- 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



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	I _o	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	25.0							A
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				0.05		-	mA mA
Typical Thermal Resistance (Note 1)	R _{θJA}	50							°C/W
Typical Junction Capacitance (Note 2)	C _j	110			80		28		pF
Operating Junction Temperature Range	T _J	- 65 to + 125			-65 to + 150				°C
Storage Temperature Range	T _{STG}	- 65 to + 150							°C

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



RATINGS AND CHARACTERISTIC CURVES (SRT12 THRU SRT110)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

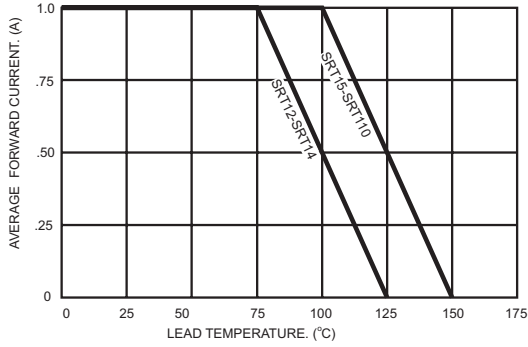


FIG.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

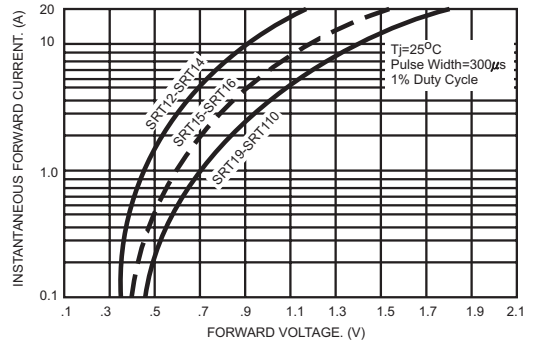


FIG.3- TYPICAL REVERSE CHARACTERISTICS

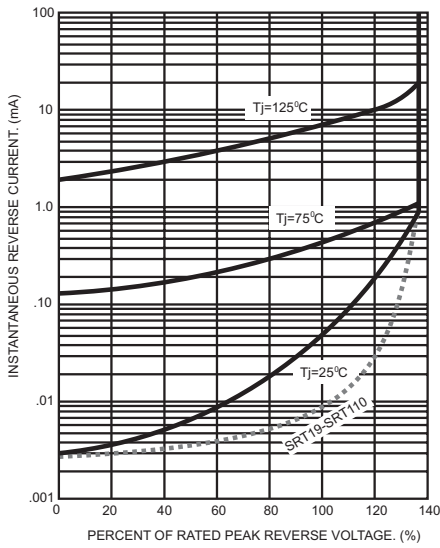


FIG.4- TYPICAL JUNCTION CAPACITANCE

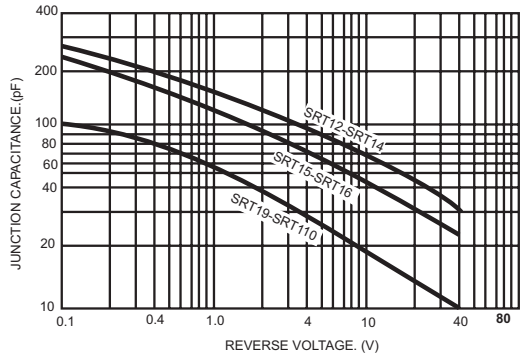


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

