

Features

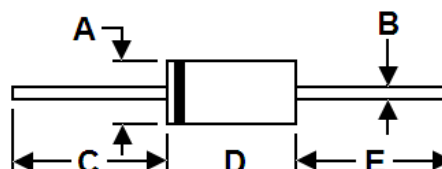
- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability



RoHS
COMPLIANT

Package Outline Dimensions

R-1:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.0	2.7	0.080	0.107
B	0.53	0.64	0.021	0.025
C	25.4	-	1.0	-
D	3.0	3.3	0.118	0.130
E	25.4	-	1.0	-

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end

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	Symbols	SR 102S	SR 103S	SR 104S	SR 105S	SR 106S	SR 108S	SR 110S	SR 115S	SR 120S	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum D.C Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0									A
Peak Forward Surge Current, 8.3ms single half sine-wave	I _{FSM}	30									A
Maximum Instantaneous Forward Voltage at 1.0A(Note1)	V _F	0.55			0.70		0.85		0.95		V
Maximum Reverse Current T _J =25 ℃ @ Rated VR T _J =100℃ T _J =125 ℃	I _R	0.5					0.1				mA
		10			5		-				
		-			-		2				
Typical Thermal Resistance(Note2)	R _{θJA}	90									℃/W
Voltage Rate of Change (Rated VR)	dV/dt	10000									V/μs
Operating Junction Temperature Range	T _J	-55 to +125			-55 to +150						℃
Storage Temperature Range	T _{STG}	-55 to +150									℃

NOTE: 1、Pulse test: $t_p=300\text{ }\mu\text{S}$, 1% duty cycle

Ratings and Characteristic Curves

FIG.1- FORWARD CURRENT DERATING CURVE

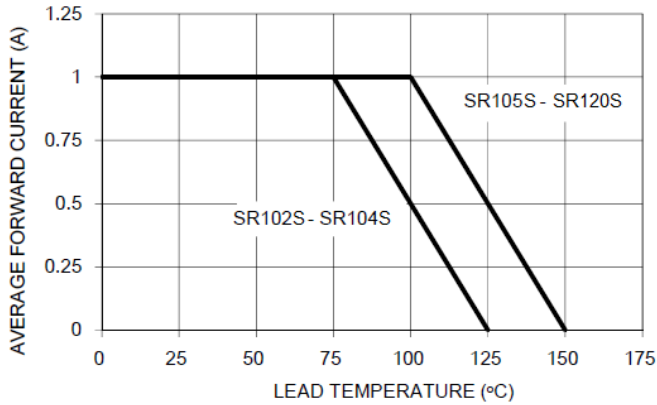


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

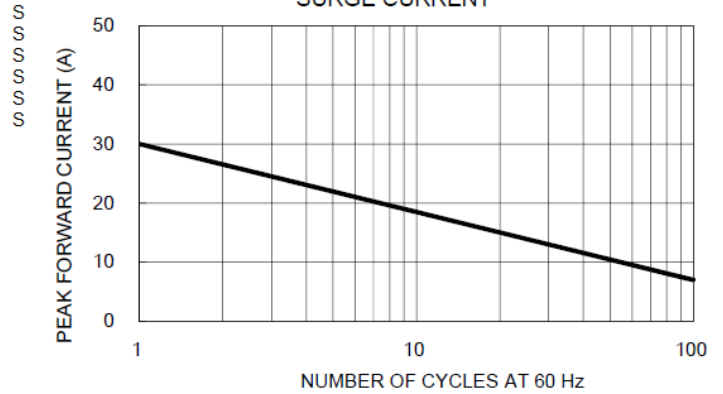


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

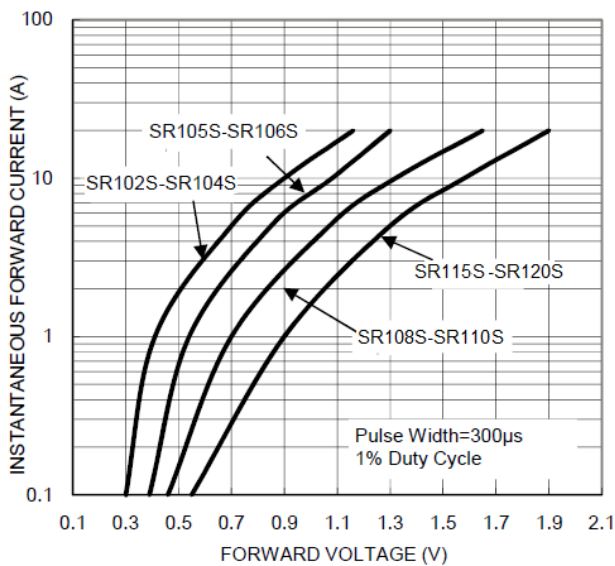


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

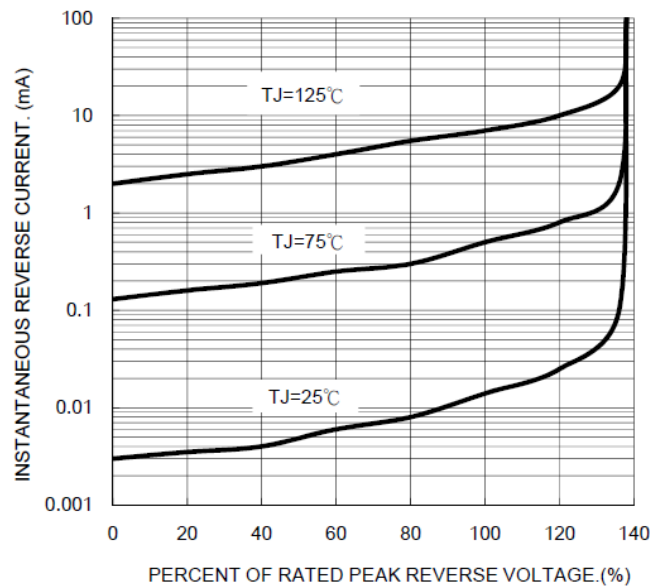


FIG. 5 TYPICAL JUNCTION CAPACITANCE

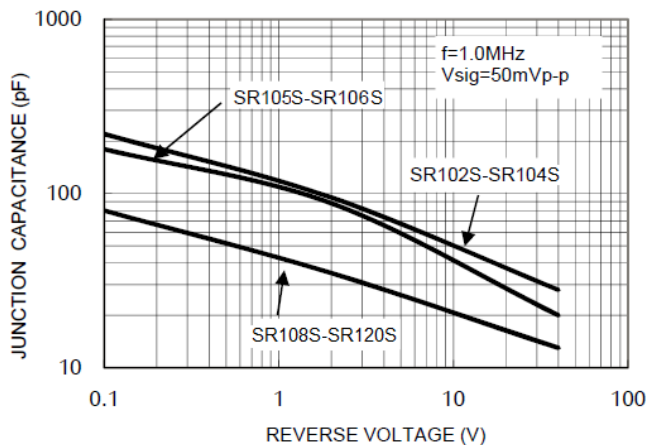
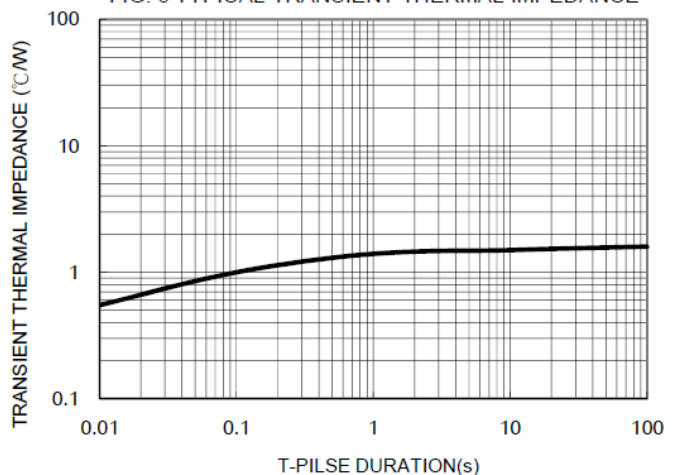


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE





SR102S THRU SR120S

1.0 Amp. Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing
SR102S~SR120S	R-1	3K/AMMO box
SR102S~SR120S	R-1	5K/AMMO box
SR102S~SR120S	R-1	5K/13" Paper reel
SR102S~SR120S	R-1	1K/Bulk packing