

Features

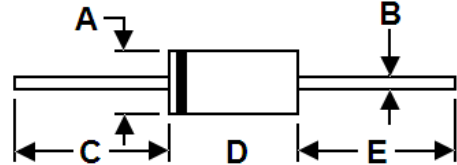
- * Low Forward Voltage Drop
- * Low power loss, high efficiency
- * Guardring for overvoltage protection
- * High Surge Current Capability



RoHS
COMPLIANT

Package Outline Dimensions

DO-15:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.6	3.6	0.102	0.142
B	0.7	0.9	0.027	0.035
C	25.4	-	1.0	-
D	5.8	7.6	0.228	0.300
E	25.4	-	1.0	-

Mechanical Data

- * Case: DO-204AC 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 202	SR 203	SR 204	SR 205	SR 206	SR 208	SR 210	SR 215	SR 220	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	$I_{F(AV)}$	2.0									A
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	60									A
Maximum Instantaneous Forward Voltage at 2.0A(Note1)	V_F	0.55		0.70		0.85		0.95			V
Maximum Reverse Current @ Rated VR $T_J=25^{\circ}C$ $T_J=100^{\circ}C$ $T_J=125^{\circ}C$	I_R	0.5				0.1				mA	
		10		5		-					
		-		-		2					
Voltage Rate of Change (Rated VR)	dV/dt	10000									V/ μ s
Typical Thermal Resistance	$R_{\theta JC}$	14									$^{\circ}C/W$
	$R_{\theta JL}$	21.7									
	$R_{\theta JA}$	75									
Operating Junction Temperature Range	T_J	-55 to +125				-55 to +150				$^{\circ}C$	
Storage Temperature Range	T_{STG}	-55 to +150									$^{\circ}C$

Note: 1. Pulse test: $t_p=300\mu s$, 1% duty cycle

Ratings and Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

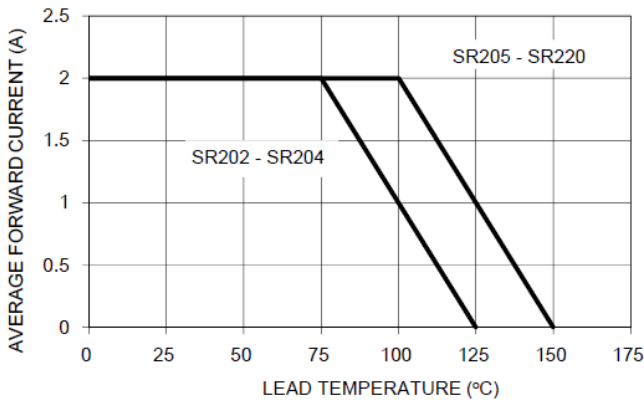


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

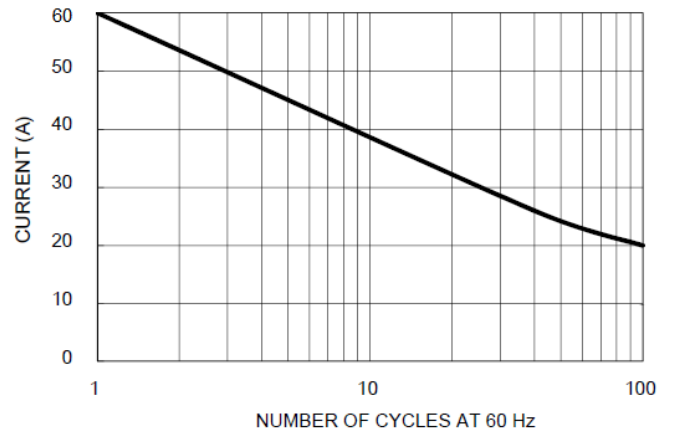


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

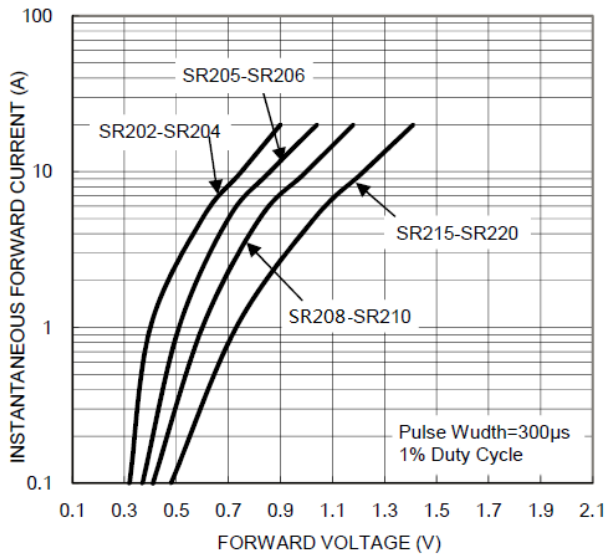


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

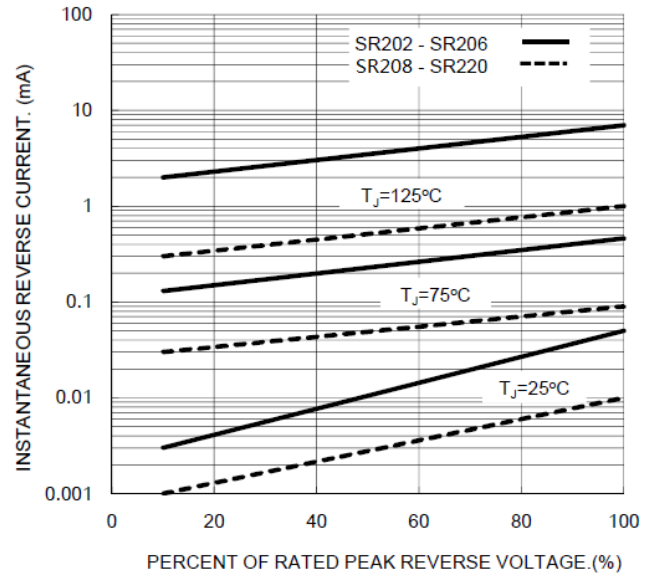


FIG. 5- TYPICAL JUNCTION CAPACITANCE

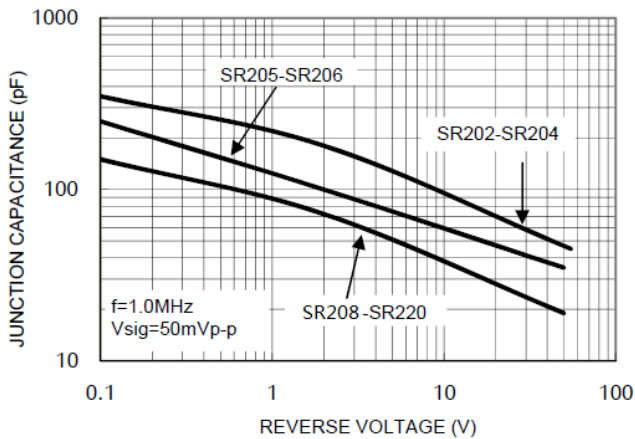
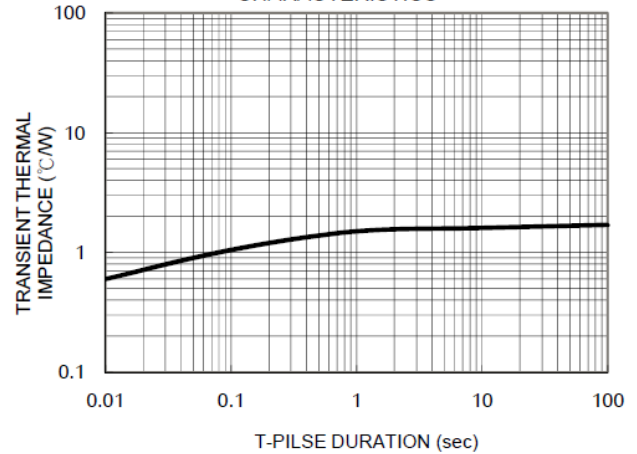


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS





SR202 THRU SR220
2.0 Amps. Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing
SR202~SR220	DO-15	2K/AMMO box
SR202~SR220	DO-15	3K/AMMO box
SR202~SR220	DO-15	4K/13" Paper reel
SR202~SR220	DO-15	0.5K/Bulk packing