

RoHS Compliant Product  
A suffix of "-C" specifies halogen free

### FEATURES

- Low Reverse Current
- High Surge Current Capability
- Low Forward Voltage

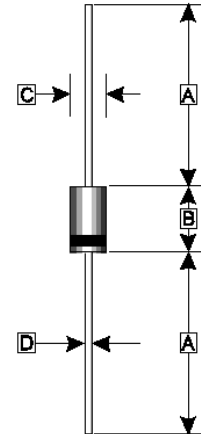
### MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL94V-0 Rate Flame Retardant
- Lead: Axial Leads, Solderable Per MIL-STD-202, Method 208 Guaranteed
- Polarity: Cathode Band
- Mounting Position: Any

### ORDER INFORMATION

Part Number	Type
SRL5200	Lead (Pb)-free
SRL5200-C	Lead (Pb)-free and Halogen-free

### DO-27(DO-201)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.53
C	4.80	5.60
D	1.10	1.32

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Maximum RMS Voltage	$V_{RMS}$	140	V
Maximum DC Blocking Voltage	$V_{DC}$	200	V
Maximum Average Forward Rectified Current	$I_F$	5	A
Peak Forward Surge Current @8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	150	A
Typical Thermal Resistance from Junction-Case	$R_{\theta JC}$	20	$^\circ\text{C/W}$
Operating Junction & Storage Temperature Range	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Typ.	Max.	Unit	Test Conditions
Maximum Instantaneous Forward Voltage	$V_F$	-	0.8	V	$I_F=5\text{A}, T_A=25^\circ\text{C}$
Maximum DC Reverse Current @Rated DC Blocking Voltage	$I_R$	-	0.2	mA	$T_A=25^\circ\text{C}$
		-	10		$T_A=100^\circ\text{C}$
Typical Junction Capacitance <sup>1</sup>	$C_J$	670	-	pF	

Note:

1. Measured at 1MHz and applied with 4V D.C reverse voltage.

**CHARACTERISTIC CURVES**

FIG. 1-Typical Forward Current Derating Curve

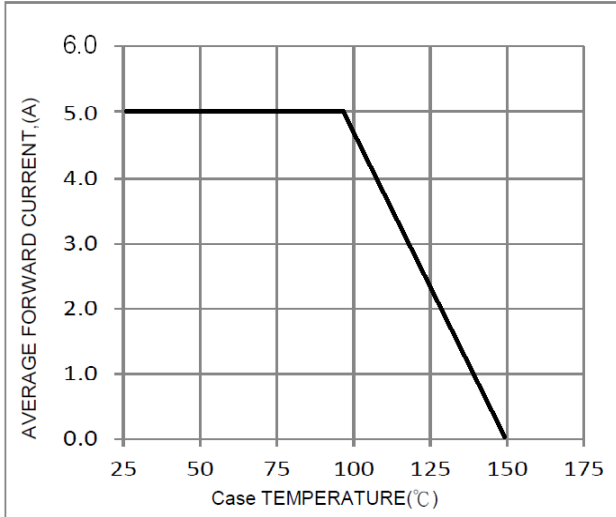


FIG. 2-Typical Forward Characteristics

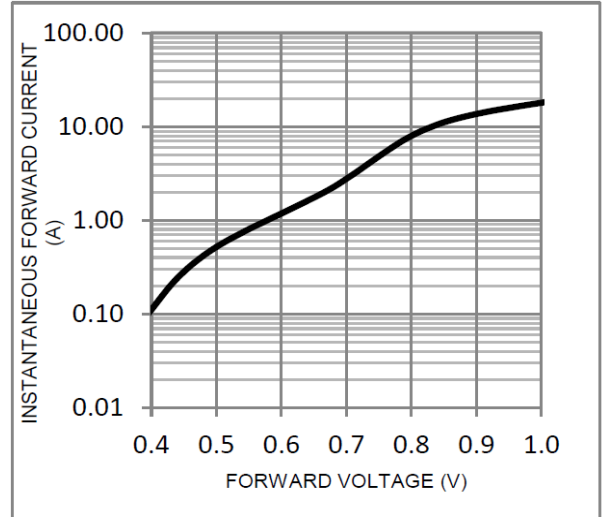


FIG. 3-Maximum Non-Repetitive Forward Surge Current

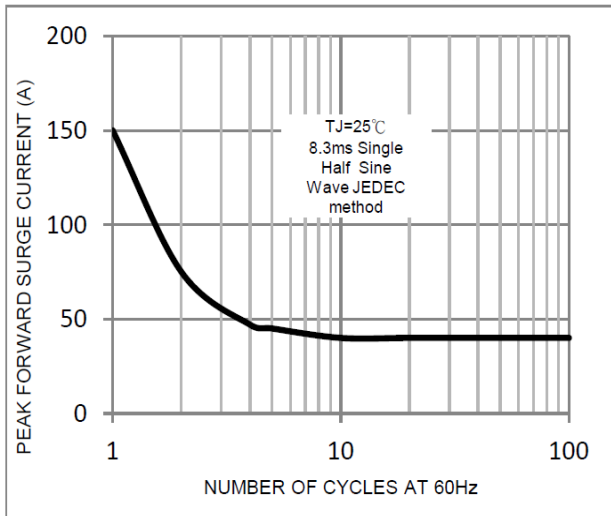


FIG. 4-Typical Reverse Characteristics

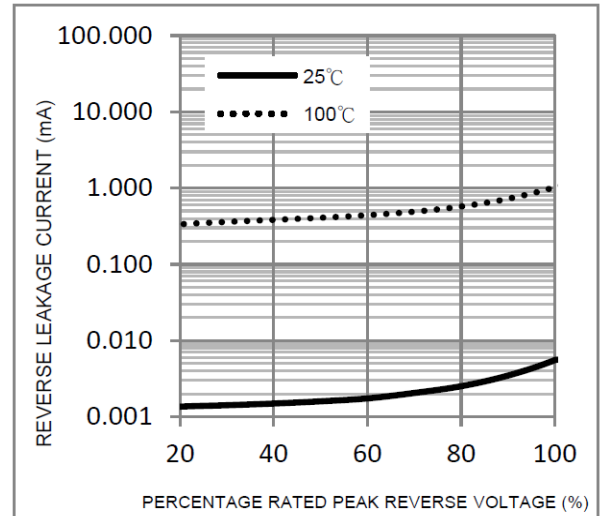


FIG. 5-Typical Junction Capacitance

