

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

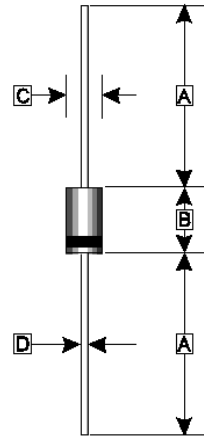
**FEATURES**

- Trench Barrier Schottky technology
- Low forward voltage drop, low power losses.
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

**MECHANICAL DATA**

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any

**DO-27(DO-201)**



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.50
C	4.80	5.60
D	1.10	1.30

**ORDER INFORMATION**

Part Number	Type
SRL8100	Lead (Pb)-free
SRL8100-C	Lead (Pb)-free and Halogen-free

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	V
Maximum RMS Voltage	$V_{RMS}$	100	V
Maximum DC Blocking Voltage	$V_{DC}$	100	V
Maximum Average Forward Rectified Current	$I_F$	8	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	$I_{FSM}$	100	A
Typical Thermal Resistance	$R_{\theta JC}$	15	°C /W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55~150	°C

**ELECTRICAL CHARACTERISTICS**

Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	$V_F$	0.44	-	V	$I_F=2A, T_A=25^\circ C$
		-	0.69		$I_F=8A, T_A=25^\circ C$
		-	0.71		$I_F=10A, T_A=25^\circ C$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	-	0.2	mA	$T_A=25^\circ C$
		-	20		$T_A=100^\circ C$
Typical Junction Capacitance <sup>1</sup>	$C_J$	680	-	pF	

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

**RATINGS AND CHARACTERISTIC CURVES**

FIG. 1-Typical Forward Current Derating Curve

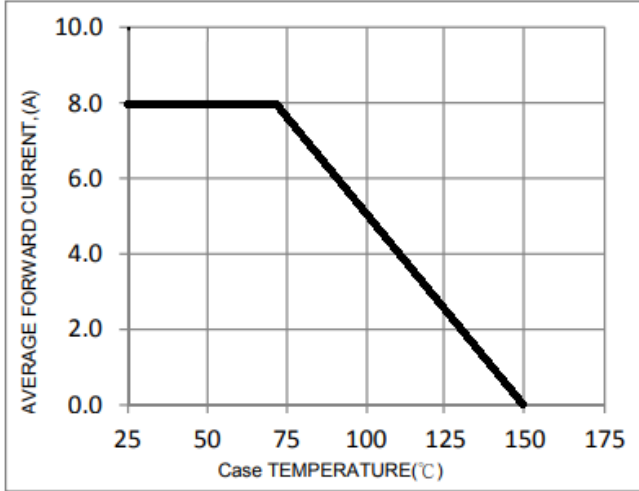


FIG. 2-Typical Forward Characteristics

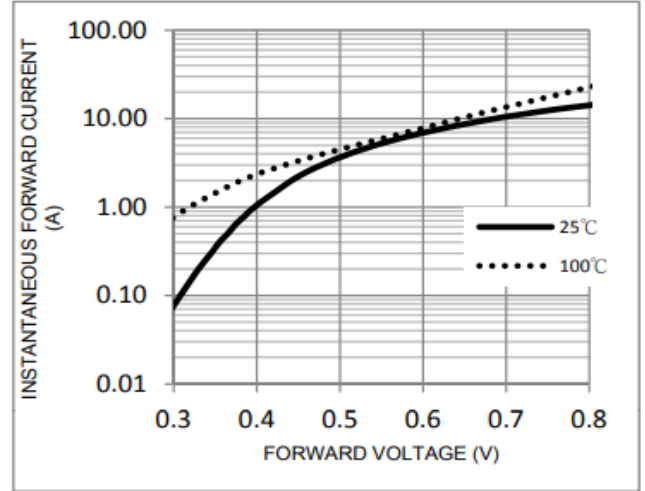


FIG. 3-Maximum Non-Repetitive Forward Surge Current

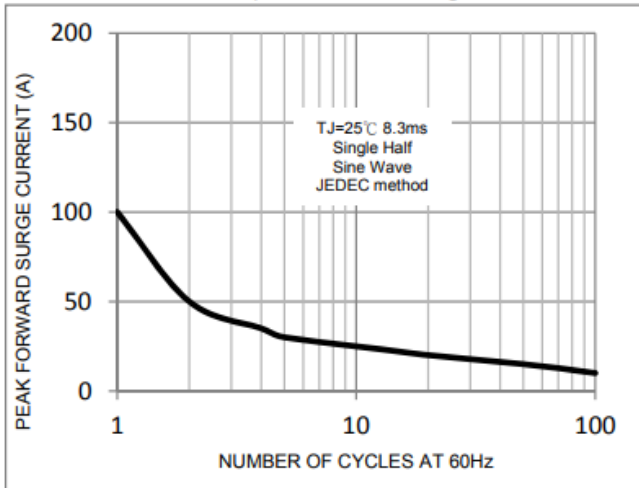


FIG. 4-Typical Reverse Characteristics

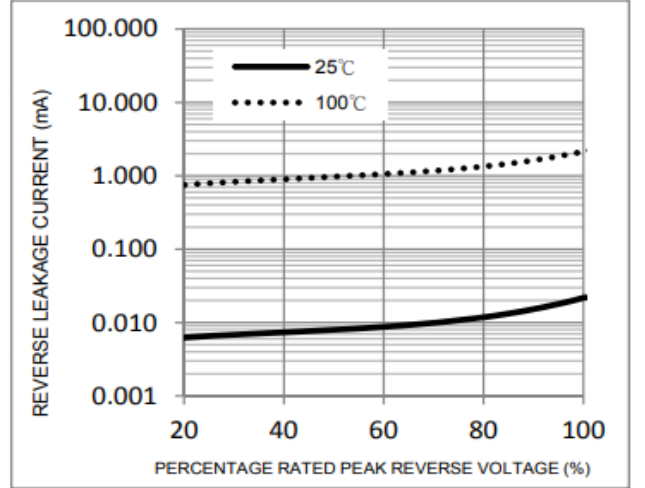


FIG. 5-Typical Junction Capacitance

