

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

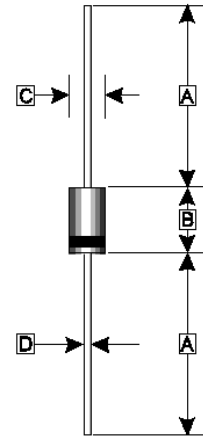
FEATURES

- High Surge Current Capability
- Ultra-Low Forward Voltage
- High Reliability
- High Current Capability

MECHANICAL DATA

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

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

ORDER INFORMATION

Part Number	Type
SRX5100L-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}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	I_F	5	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100	A
Typical Thermal Resistance	$R_{\theta JL}$	12	°C/W
Operating & 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	$I_F=2A, T_A=25^\circ C$
		-	0.58		$I_F=5A, T_A=25^\circ C$
Maximum DC Reverse Current ² At Rated DC Blocking Voltage	I_R	-	0.2	mA	$T_A=25^\circ C$
		-	20		$T_A=100^\circ C$
Typical Junction Capacitance ¹	C_J	545	-	pF	

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Pulse Test: Pulse Width=300µs, Duty Cycle ≤2%.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-Typical Forward Current Derating Curve

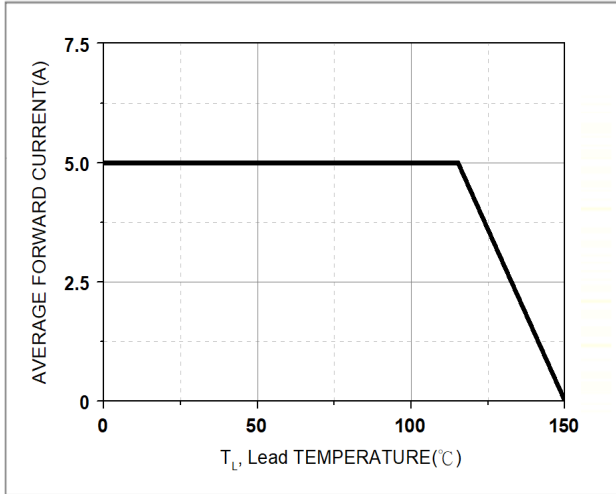


FIG. 2-Typical Forward Characteristics

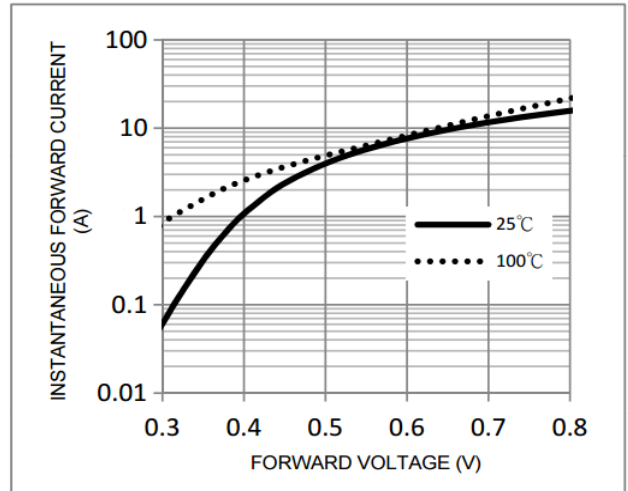


FIG. 3-Maximum Non-Repetitive Forward Surge Current

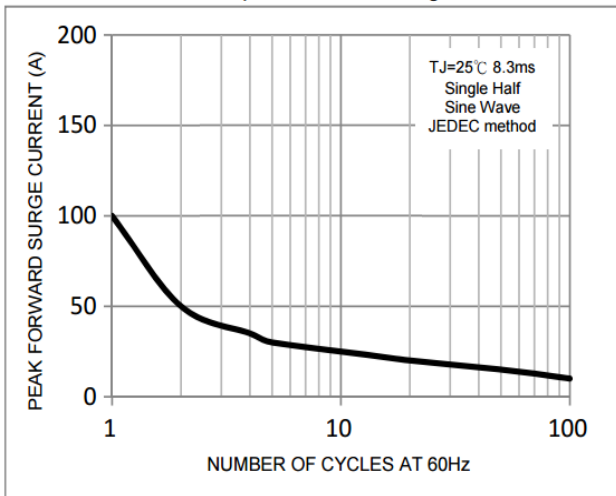


FIG. 4-Typical Reverse Characteristics

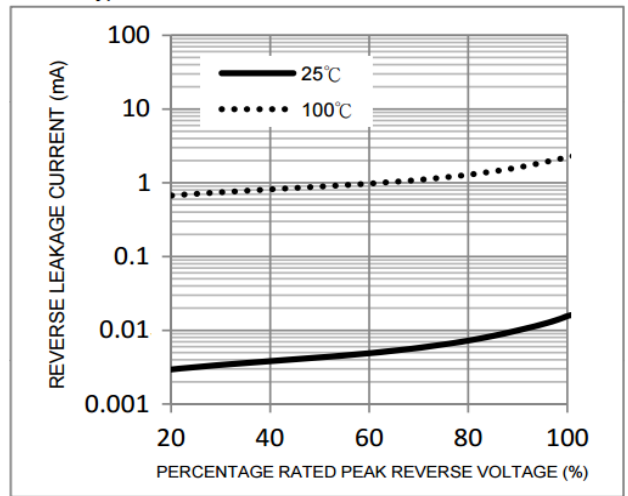


FIG. 5-Typical Junction Capacitance

