

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

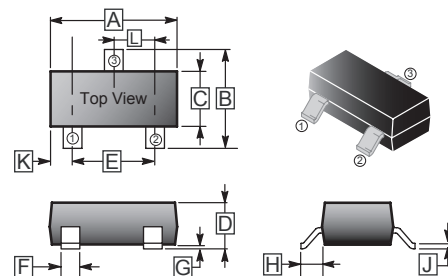
## DESCRIPTIONS AND FEATURES

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection

**SC-59**

## PACKAGE INFORMATION

- Case: Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Polarity: See the center diagram
- Weight: 0.0123 g (approximately)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	0.10 REF.	
B	2.25	3.00	H	0.40 REF.	
C	1.30	1.70	J	0.10	0.20
D	1.00	1.40	K	0.45	0.55
E	1.70	2.30	L	0.85	1.15
F	0.35	0.50			


## MARKING CODE

LV6<sup>-</sup>



## ABSOLUTE MAXIMUM RATINGS (at T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RPS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	V
Peak Forward Surge Current at 8.3 m Sec single half sine-wave	I <sub>FSM</sub>	1.0	A
Maximum Average Forward Rectified Current	I <sub>O</sub>	0.1	A
Typical Junction Capacitance between Terminal	C <sub>J</sub>	6.0	pF
Total Power Dissipation	P <sub>D</sub>	225	mW
Junction, Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	+125, -40 ~ +125	°C

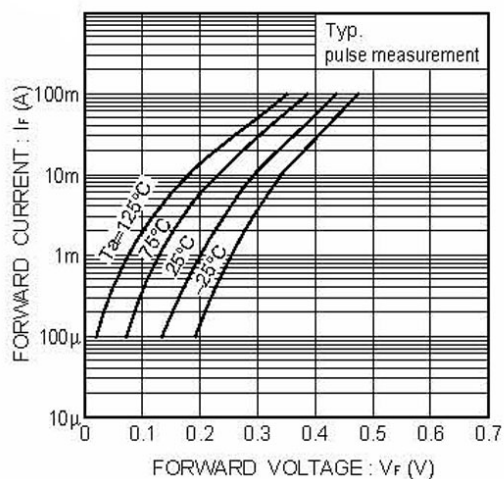
Note: 60Hz for 1 

## ELECTRICAL CHARACTERISTICS (at T<sub>A</sub> = 25°C unless otherwise specified)

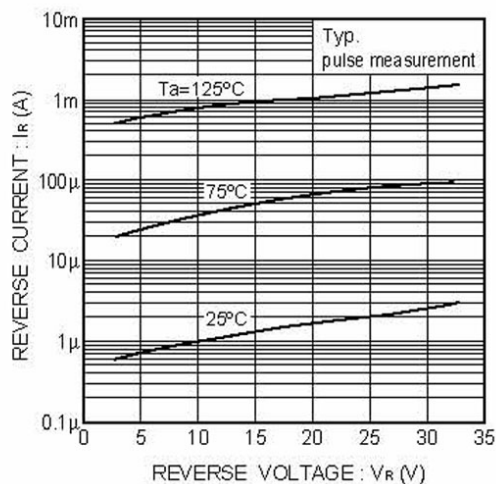
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Maximum Instantaneous Forward Voltage	V <sub>F(1)</sub>	-	0.55	-	V	I <sub>F(1)</sub> = 100mA
	V <sub>F(2)</sub>	-	0.34	-	-	I <sub>F(2)</sub> = 10mA
Maximum Average Reverse Current	I <sub>R</sub>	-	30.0	-	uA	V <sub>R</sub> = 10V
Junction capacitance between terminals	C <sub>J</sub>	-	6.0	-	pF	

Note: ESD sensitive product handling required.

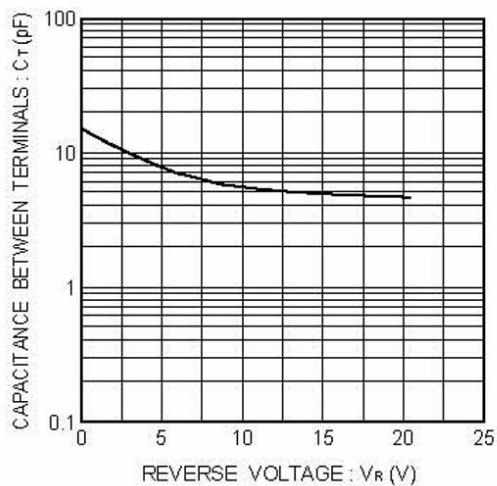
**RATINGS AND CHARACTERISTIC CURVES**



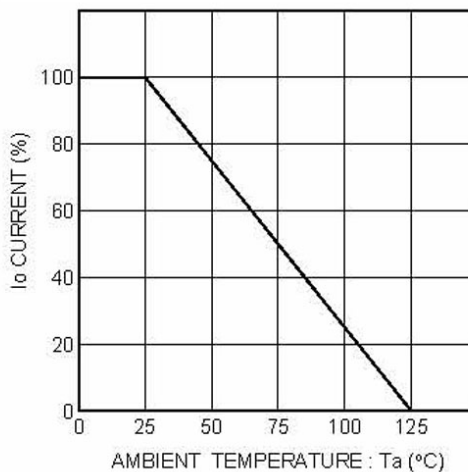
**Fig. 1 Forward characteristics**



**Fig. 2 Reverse characteristics**



**Fig. 3 Capacitance between terminals characteristics**



**Fig. 4 Derating curve (mounting on glass epoxy PCBs)**