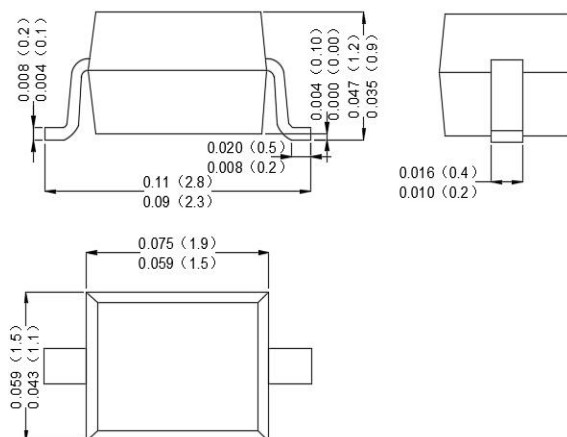




Features

- Low Forward Voltage – 0.24 Volts (Typ) @ $I_F = 10 \text{ mAdc}$
- High Current Capability

SOD-323



Dimensions in inches and (millimeters)

Mechanical Data

- Case:Molded Plastic,SOD-323
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026
- Mounting Position : Any.
- Marking: S7

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Rating	Symbol	Value	Unit
Reverse Voltage	V_R	20	Vdc
Peak Reverse Voltage	V_{RM}	23	V
Forward Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C	P_F	200 2.0	mW mW/°C
Forward Current (DC) Continuous	I_F	1	A
Forward Current $t = 8.3 \text{ ms}$ Half Sinewave	I_F	5	A
Junction Temperature	T_J	125 Max	°C
Storage Temperature Range	T_{stg}	-55 to +150	°C

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit
Total Capacitance ($V_R = 5.0 \text{ V}$, $f = 1.0 \text{ MHz}$)	C_T	–	25	29	pF
Reverse Leakage ($V_R = 15 \text{ V}$)	I_R	–	10	50	μAdc
Reverse Leakage ($V_R = 2.0 \text{ V}$ @ 85° C)	I_R	–	200	300	μA
Reverse Leakage ($V_R = 15.0 \text{ V}$ @ 85° C)	I_R	–	450	1000	μA
Forward Voltage ($I_F = 10 \text{ mAdc}$)	V_F	–	0.24	0.27	Vdc
Forward Voltage ($I_F = 100 \text{ mAdc}$)	V_F	–	0.30	0.35	Vdc
Forward Voltage ($I_F = 900 \text{ mAdc}$)	V_F	–	0.45	0.50	Vdc



Rating And Characteristic Curves

Figure 1. Forward Voltage

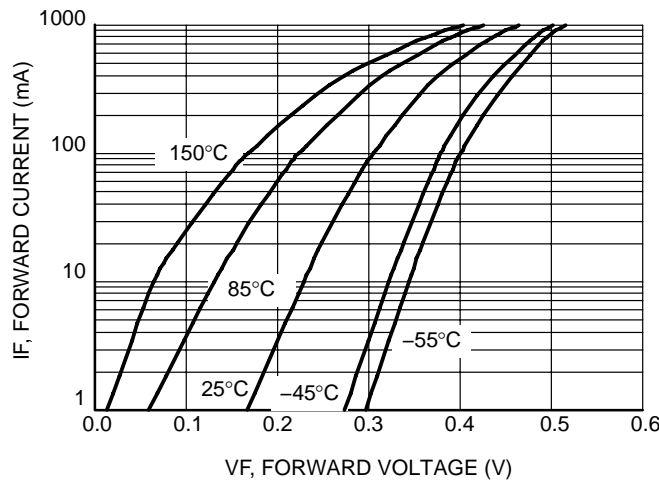


Figure 2. Leakage Current

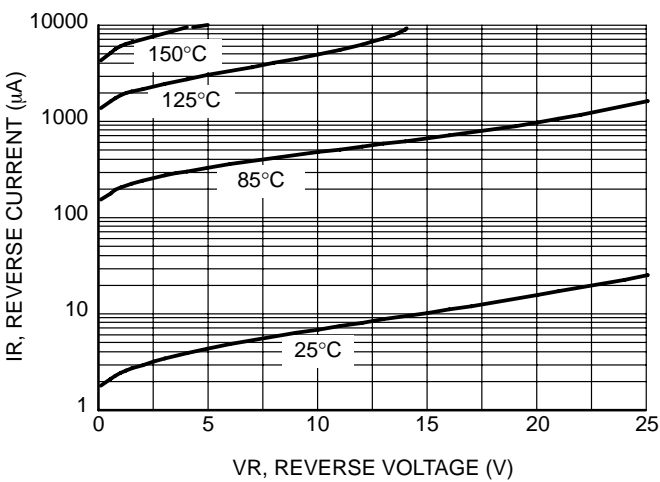
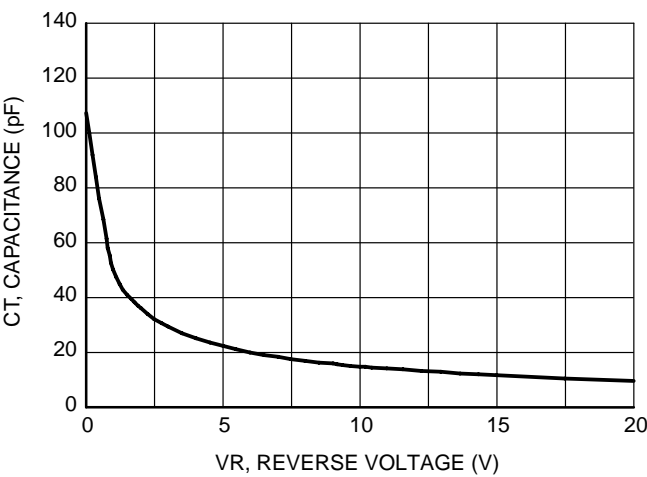


Figure 3. Total Capacitance





Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without from XINNUO.
- XINNUO reserves the right to make changes to this document and its products and specifications.
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown her are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.