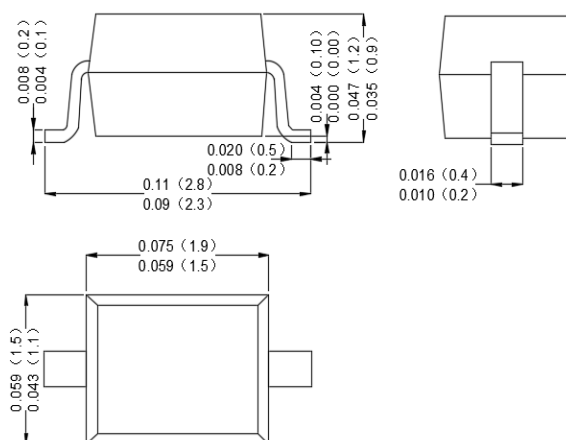




Features

- Small surface mounting type
- High reliability

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: MD

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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	30	V
Reverse Voltage	V_R	30	V
Average Forward Current	I_O	100	mA
Peak Forward Current	I_{FM}	300	mA
Peak Forward Surge Current	I_{FSM}	1	A
Power Dissipation	P_D	200 ¹⁾	mW
Junction Temperature Range	T_j	125	°C
Storage Temperature Range	T_{stg}	- 55 to + 125	°C

¹⁾ Mounted on a glass epoxy circuit of board of 20 X 20 mm, pad dimension of 4 X 4 mm.

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

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1$ mA at $I_F = 5$ mA at $I_F = 100$ mA	V_F	- - -	0.35 0.4 0.55	V
Reverse Current at $V_R = 30$ V	I_R	-	15	μA
Total Capacitance at $V_R = 1$ V, $f = 1$ MHz	C_T	40	-	pF



Rating And Characteristic Curves

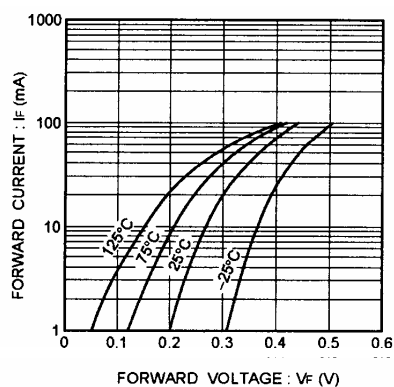


Fig. 1 Forward characteristics

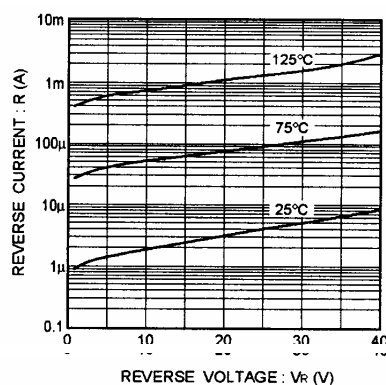
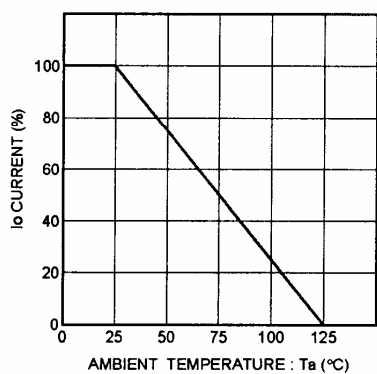


Fig. 2 Reverse characteristics



Derating curve
(mounting on glass epoxy PCBs)



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