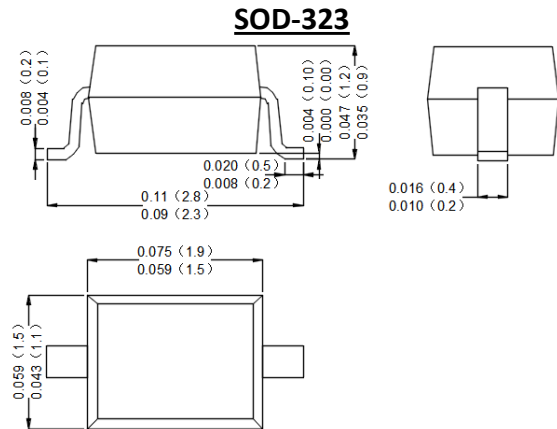


**Features**

- Fast Switching Speed:Max 5ns.
- Silicon Epitaxial Planar Diodes.
- Power Dissipation of 230mW.
- High Stability and High Reliability.
- For General Purpose switching Applications.

Mechanical Data

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



Dimensions in inches and (millimeters)

Maximum Ratings

Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	70	V
Reverse Voltage	V_R	70	V
Forward Continuous Current (Note 1)	$I_{F(AV)}$	70	mA
Surge Non-Repetitive Forward Current ($t_P=10ms$)	I_{FSM}	1	A
Power Dissipation (Note 1)	P_D	230	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	543	°C/W
Junction temperature	T_j	150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Test Conditions	Symbol	Min	Max	Unit
Reverse Breakdown Voltage	At $I_R = 10.0\mu A$	V_{BR}	70		V
Forward voltage	At $I_F=1mA$	V_F		0.410	V
Reverse current	At $V_R = 50V$	I_R		0.1	μA
Junction Capacitance	At $V_R = 0V$ $f=1.0MHz$	C_J		2	pF

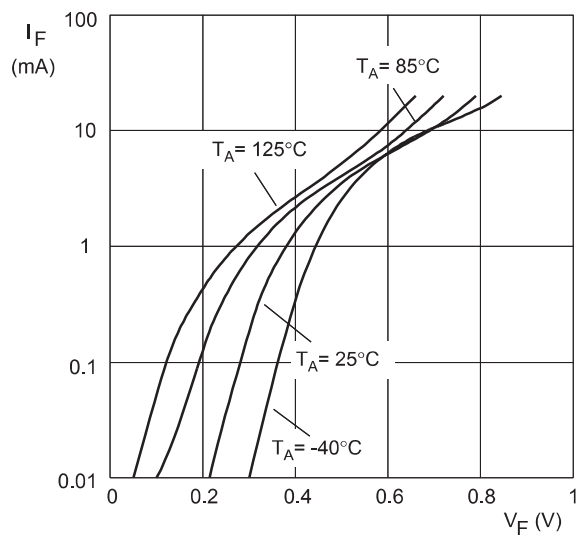


Fig.1 Forward current as a function of forward voltage; typical values.

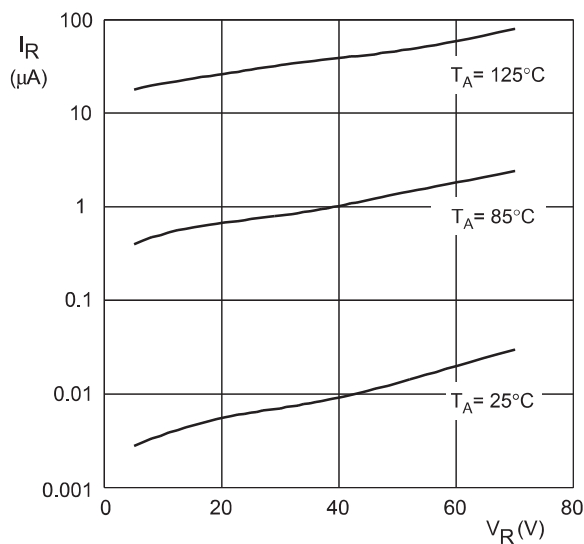


Fig.2 Reverse current as a function of reverse voltage; typical values.

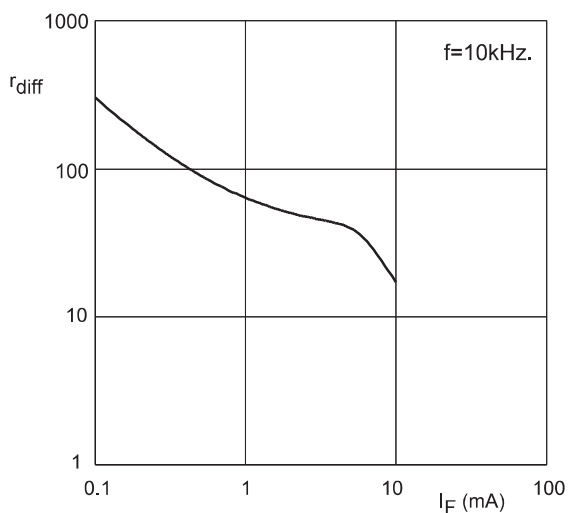


Fig.3 Differential forward resistance as a function of forward current.

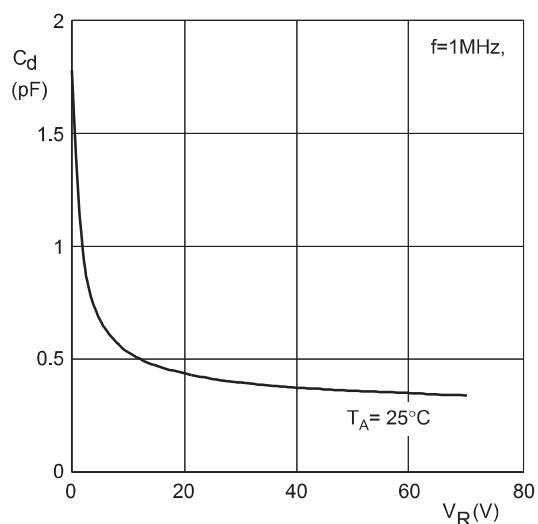


Fig.4 Diode capacitance as a function of reverse voltage.



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