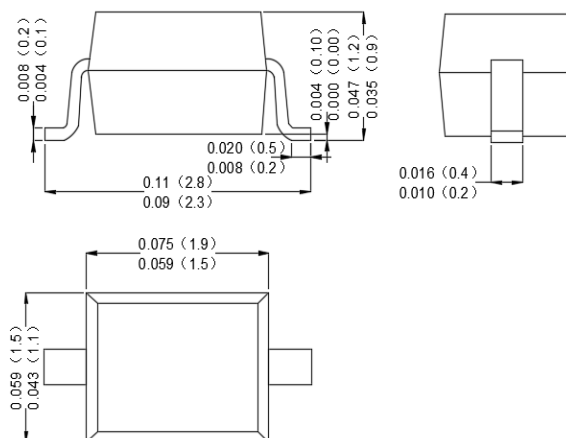




### Features

- 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: A1

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

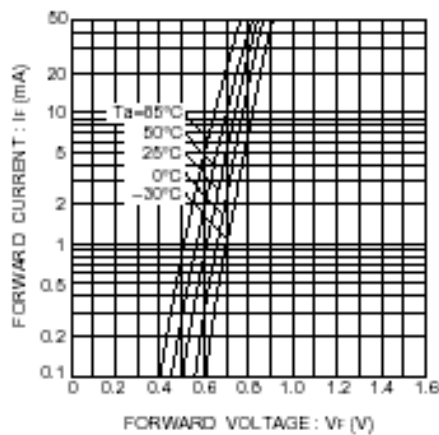
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	85	V
Reverse Voltage	$V_R$	75	V
Continuous Forward Current	$I_F$	125	mA
Repetitive Peak Forward Current	$I_{FRM}$	450	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}$	0.5	A
at $t = 1$ s		1	
at $t = 1$ ms		4	
at $t = 1$ $\mu$ s			
Power Dissipation	$P_{tot}$	250	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	- 65 to + 150	°C

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

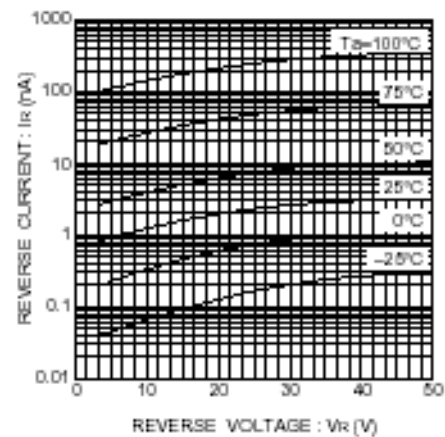
Parameter	Symbol	Max.	Unit
Forward Voltage	$V_F$	715	mV
at $I_F = 1$ mA		855	mV
at $I_F = 10$ mA		1	V
at $I_F = 50$ mA		1.25	V
Reverse Current	$I_R$	30	nA
at $V_R = 25$ V		1	$\mu$ A
at $V_R = 75$ V		30	$\mu$ A
at $V_R = 25$ V, $T_j = 150$ °C		50	$\mu$ A
Diode Capacitance	$C_d$	2	pF
at $V_R = 0$ , $f = 1$ MHz			
Reverse Recovery Time	$t_{rr}$	4	ns
at $I_F = 10$ mA, $I_R = 10$ mA, $R_L = 100$ $\Omega$			



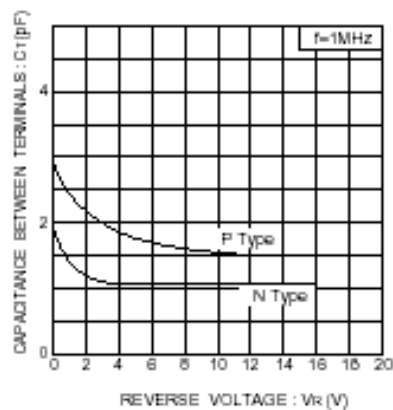
### Rating And Characteristic Curves



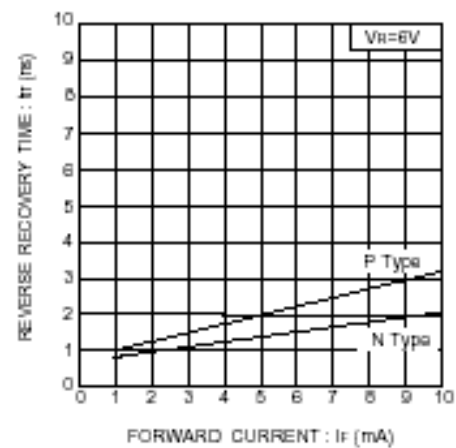
Forward characteristics



Reverse characteristics



Capacitance between terminals characteristics



Reverse recovery time



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