

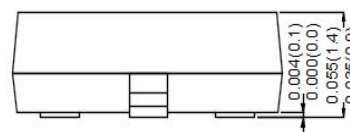
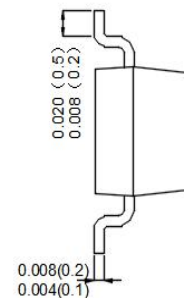
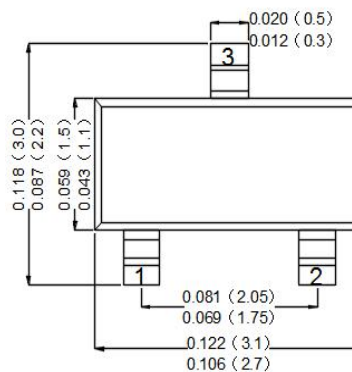
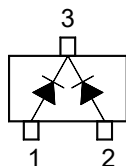


Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: A4
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	70	V
Forward Current	I_F	200	mA
Maximum Peak Forward Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current at $t = 1$ s at $t = 1$ μ s	I_{FSM}	1 2	A
Power Dissipation	P_{tot}	300	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	417	°C/W
Junction and Storage Temperature Range	T_j, T_{stg}	- 55 to + 15	°C

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1$ mA at $I_F = 100$ mA	V_F	0.55 0.85	0.7 1.1	V
Reverse Current at $V_R = 50$ V	I_R	-	0.1	μ A
Reverse Breakdown Voltage at $I_R = 100$ μ A	$V_{(BR)R}$	70	-	V
Total Capacitance at $V_R = 0$	C_T	-	2.5	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA	t_{rr}	-	4	ns



Rating And Characteristic Curves

Figure 1. Forward Voltage

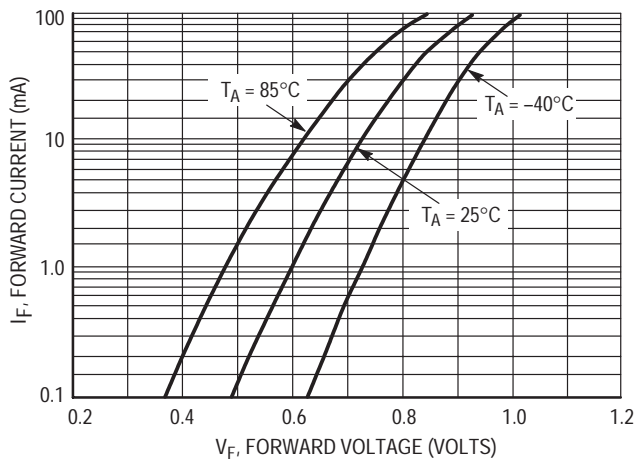


Figure 2. Leakage Current

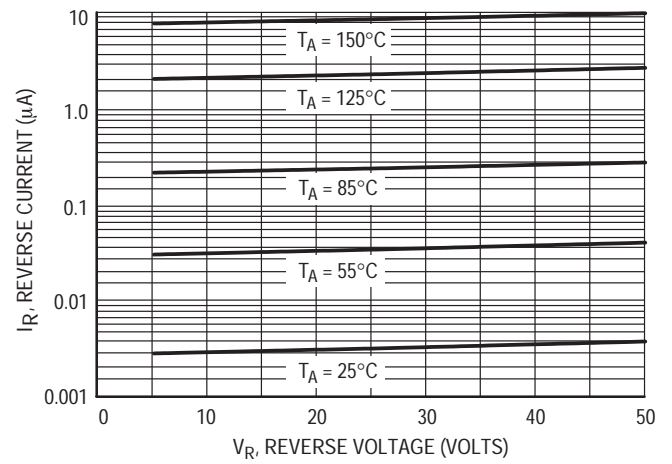
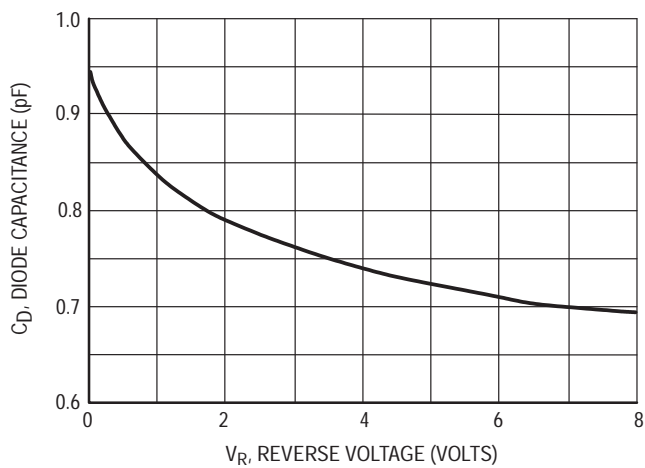


Figure 3. Capacitance





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