



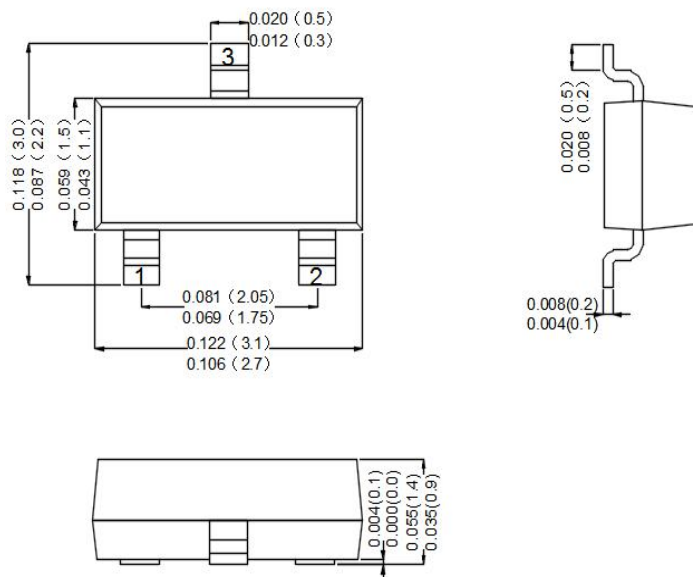
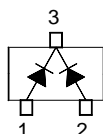
Features

- Low forward voltage
- Low reverse current

SOT-23

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: ZD
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

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

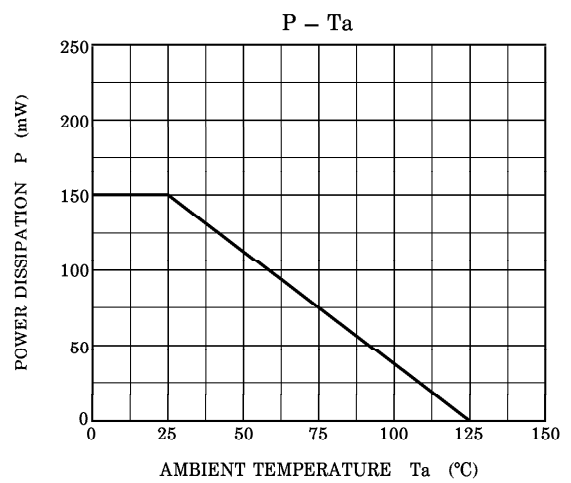
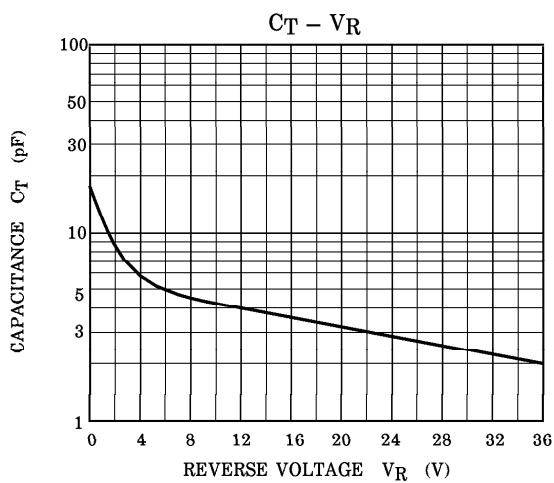
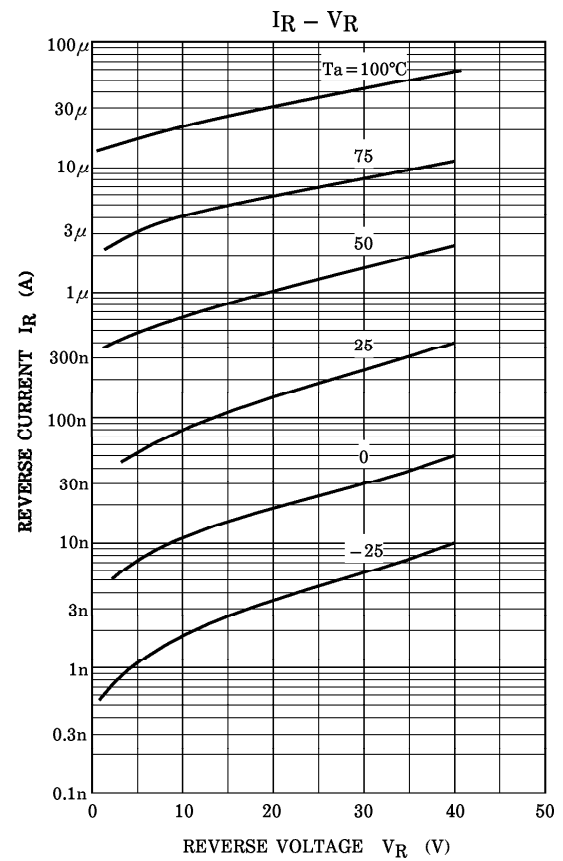
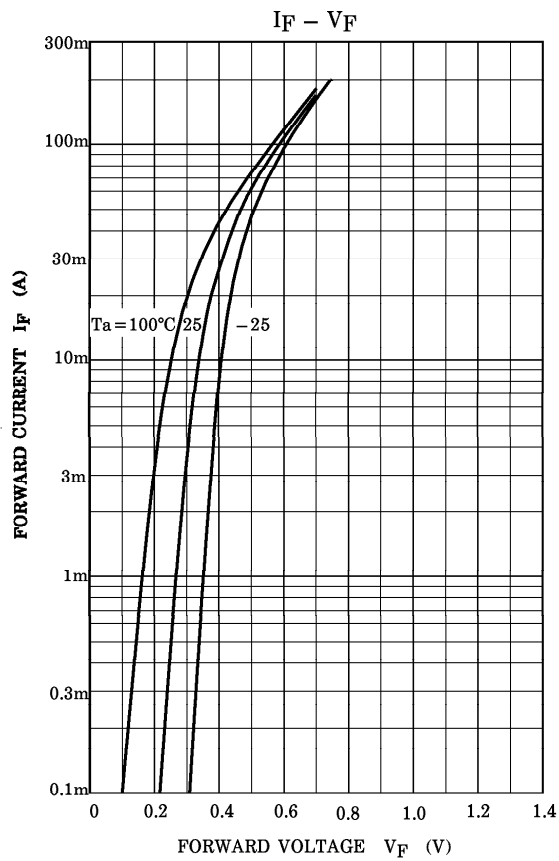
Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Average Forward Current	I_O	100	mA
Maximum Peak Forward Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current ($t = 10$ ms)	I_{FSM}	1	A
Power Dissipation	P_d	150	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	- 55 to + 125	°C

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 100$ mA	V_F	-	0.6	V
Reverse Current at $V_R = 40$ V	I_R	-	5	μ A
Reverse Breakdown Voltage at $I_R = 10$ μ A	$V_{(BR)R}$	45	-	V
Total Capacitance at $V_R = 0$, $f = 1$ MHz	C_T	-	25	pF



Rating And Characteristic Curves





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