



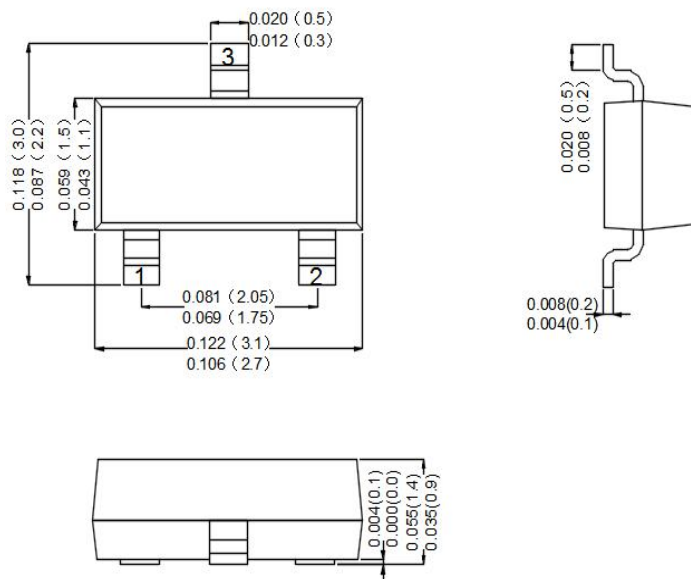
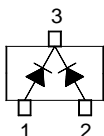
### Features

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



Dimensions in inches and (millimeters)

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

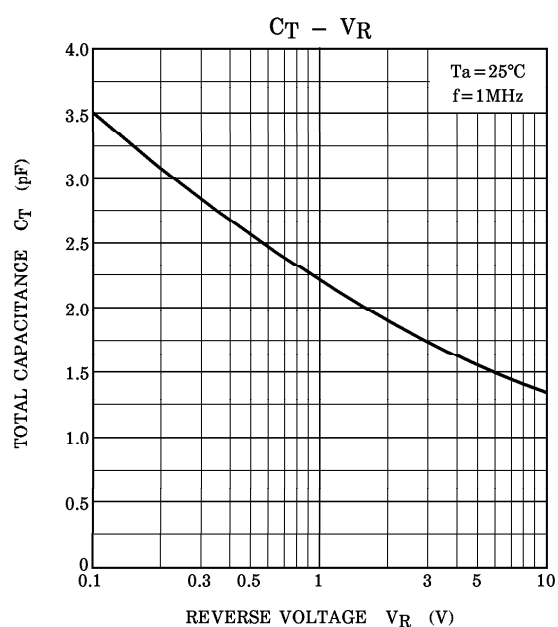
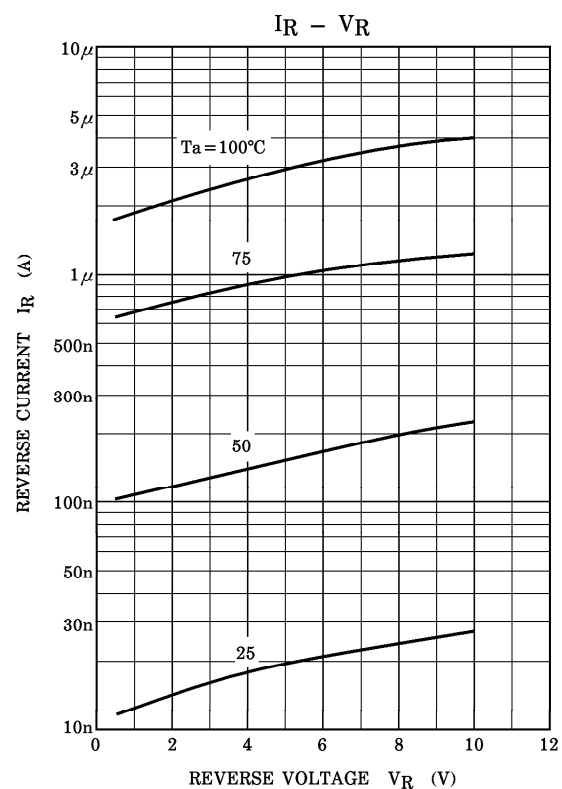
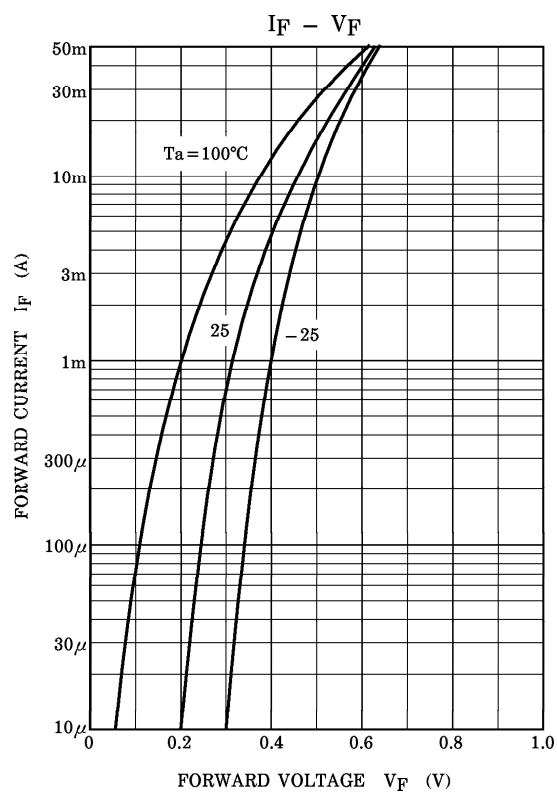
Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	$V_{RM}$	12	V
Reverse Voltage	$V_R$	10	V
Average Forward Current	$I_{F(AV)}$	50	mA
Maximum Peak Forward Current	$I_{FM}$	150	mA
Non-Repetitive Peak Forward Surge Current ( $t = 10$ ms)	$I_{FSM}$	1	A
Power Dissipation	$P_d$	150	mW
Junction Temperature	$T_j$	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 $I_F = 50$ mA	$V_F$	-	1	V
Reverse Current at $V_R = 10$ V	$I_R$	-	500	nA
Reverse Breakdown Voltage at $I_R = 10$ $\mu$ A	$V_{(BR)R}$	12	-	V
Total Capacitance at $V_R = 1$ V, $f = 1$ MHz	$C_T$	-	20	pF



### Rating And Characteristic Curves





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