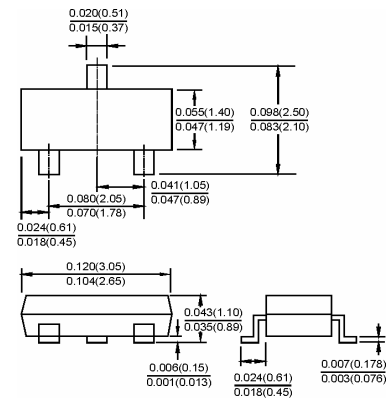
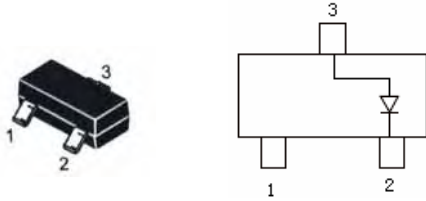




### SOT-23



## Features

- ✧ Fast Switching Speed
- ✧ Surface Mount Package Ideally Suited for Automatic Insertion
- ✧ For General Purpose Switching Applications
- ✧ High Conductance

Marking: JF

Dimensions in inches and (millimeters)

Maximum Ratings @ $T_A=25^{\circ}\text{C}$

Parameter	Symbol	Value	Unit
Non-Repetitive Peak reverse voltage	$V_{RM}$	70	V
DC Blocking Voltage	$V_R$		
Average Rectified Output Current	$I_O$	100	mA
Power Dissipation	$P_D$	225	mW
Thermal Resistance. Junction to Ambient Air	$R_{\theta JA}$	556	$^{\circ}\text{C}/\text{W}$
Junction temperature	$T_J$	150	$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-55-150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}\text{C}$  unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	70		V
Reverse voltage leakage current	$I_R$	$V_R=70\text{V}$		2.5	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$		0.715 0.855 1 1.25	V
Diode Capacitance	$C_D$	$V_R=0, f=1\text{MHz}$		1.5	pF
Reveres recovery time	$t_{rr}$	$I_F=I_R=10\text{mA}, R_L=100\Omega,$ $I_{rr}=0.1 \times I_R$		6	nS

## Typical Characteristics

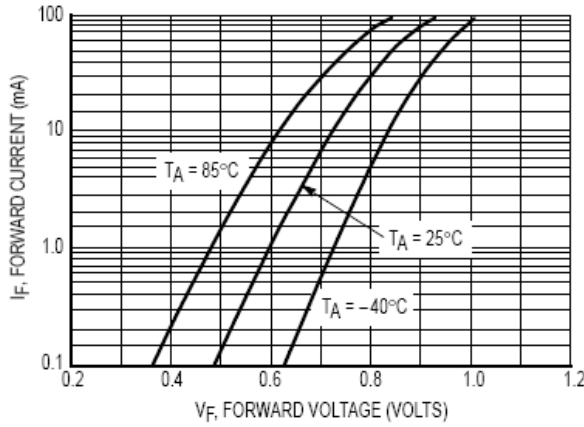


Figure 1. Forward Voltage

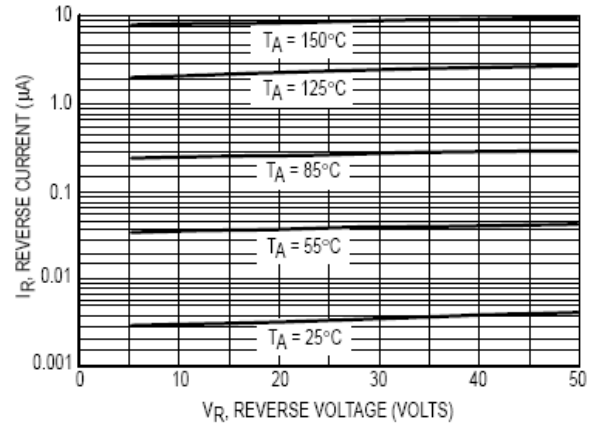


Figure 2. Leakage Current

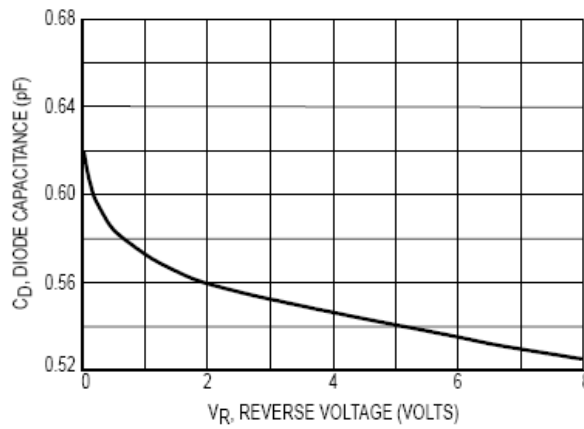


Figure 3. Capacitance

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOT-23	3000/REEL	90000	40X20X22	5.00	4.00