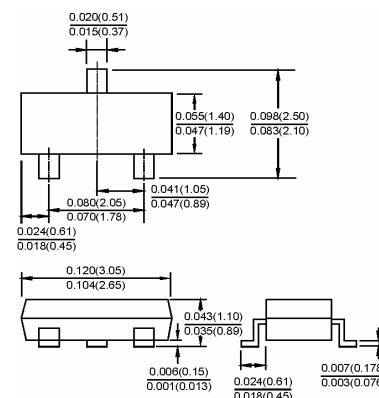


SOT-23



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°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 _{θJA}	556	°C/W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55-150	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V _{(BR) R}	I _R = 100μA	70		V
Reverse voltage leakage current	I _R	V _R =70V		2.5	μA
Forward voltage	V _F	I _F =1mA I _F =10mA I _F =50mA I _F =150mA		0.715 0.855 1 1.25	V
Diode Capacitance	C _D	V _R =0, f=1MHz		1.5	pF
Reveres recovery time	t _{rr}	I _F =I _R =10mA, R _L =100Ω, I _{rr} =0.1×I _R		6	nS

Typical Characteristics

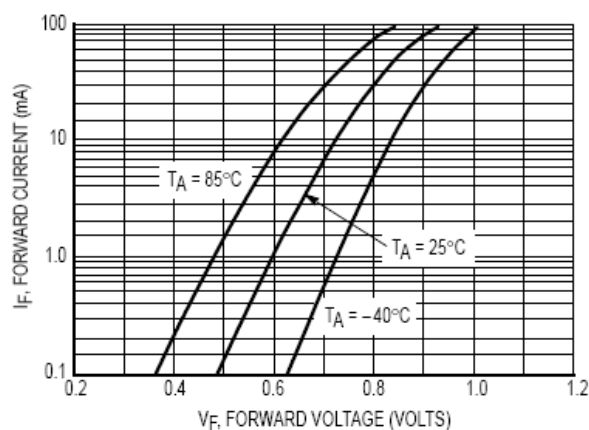


Figure 1. Forward Voltage

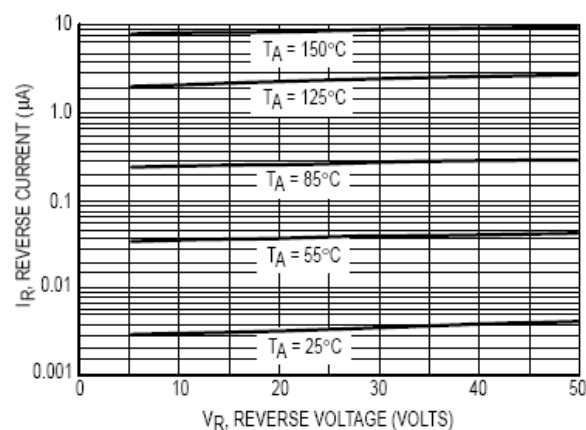


Figure 2. Leakage Current

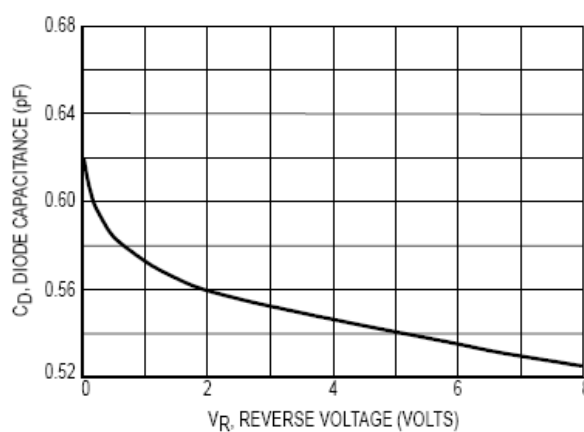


Figure 3. Capacitance

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