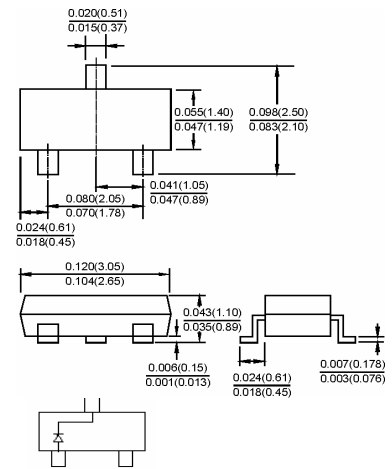

**SOT-23**


Dimensions in inches and (millimeters)

**Features**

- ◇ Fast Switching Speed
- ◇ For General Purpose Switching Applications
- ◇ High Conductance

Marking: A6

**Maximum Ratings @T<sub>A</sub>=25°C**

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V <sub>RM</sub>	100	V
Peak Repetitive Peak reverse voltage	V <sub>RPM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
Forward Continuous Current	I <sub>FM</sub>	300	mA
Average Rectified Output Current	I <sub>O</sub>	150	mA
Peak forward surge current @=1.0μs	I <sub>FSM</sub>	2.0	A
@=1.0s		1.0	
Power Dissipation	P <sub>D</sub>	225	mW
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	556	°C/W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>STG</sub>	-55~+150	°C

**ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V <sub>(BR)R</sub>	I <sub>R</sub> = 100μA	75		V
Reverse voltage leakage current	I <sub>R</sub>	V <sub>R</sub> =75V		1	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =1mA I <sub>F</sub> =10mA I <sub>F</sub> =50mA I <sub>F</sub> =150mA		0.715 0.855 1 1.25	V
Diode capacitance	C <sub>D</sub>	V <sub>R</sub> =0, f=1MHz		2	pF
Reveres recovery time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1×I <sub>R</sub> , R <sub>L</sub> =100Ω		6	nS

## Typical Characteristics

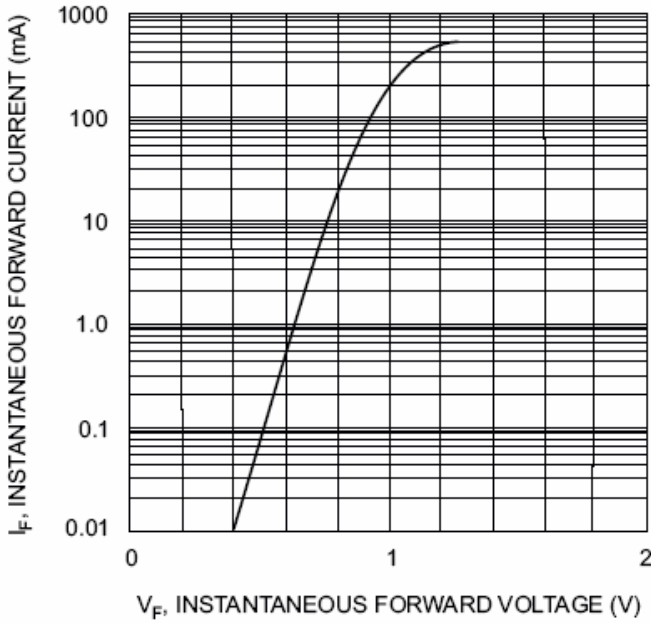


Fig. 1 Forward Characteristics

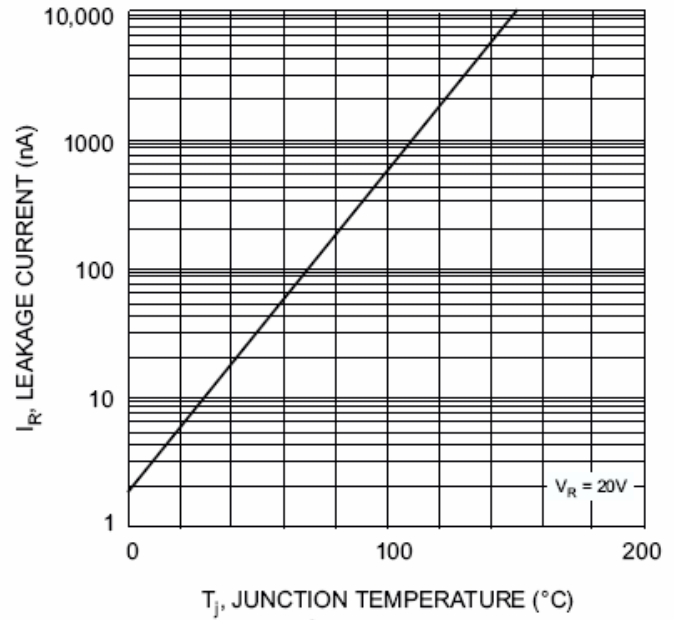


Fig. 2 Leakage Current vs Junction Temperature

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

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