

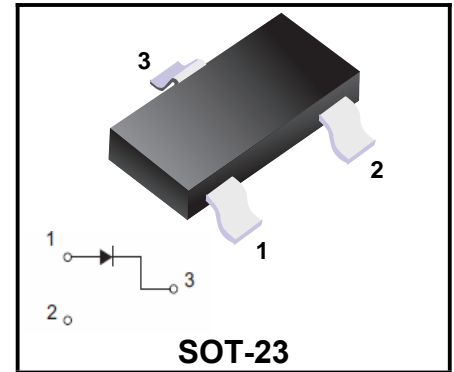
SWITCHING DIODE

FEATURES

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

Marking Code

Marking Code	
BAS20	JR



Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage DC Blocking Voltage	V _{RM} V _R	150	V
Average Rectified Output Current	I _o	200	mA
Power Dissipation	P _d	250	mW
Thermal Resistance. Junction to Ambient Air	R _{θJA}	500	°C/W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-65-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V _{(BR)R}	I _R = 100μA	150		V
Reverse voltage leakage current	I _R	V _R =150V		0.1	μA
Forward voltage	V _F	I _F =100mA I _F =200mA		1 1.25	V
Junction Capacitance	C _j	V _R =0V, f=1MHz		5	pF
Reveres recovery time	t _{rr}	I _F =I _R =30mA, I _{rr} =0.1xI _R		50	nS

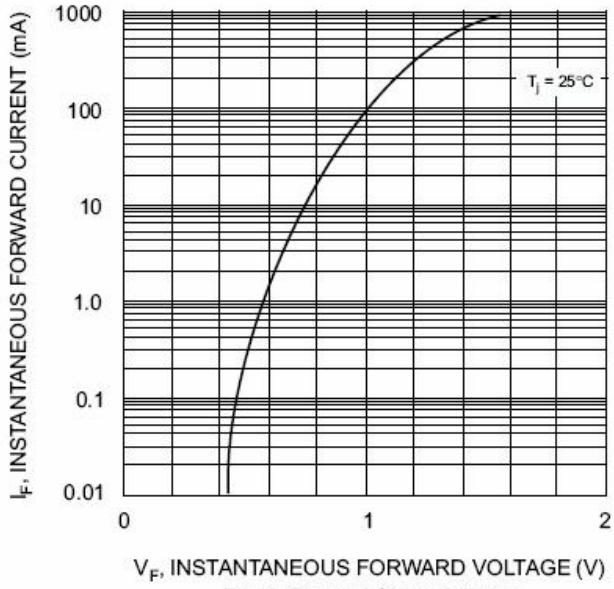


Fig. 1 Forward Characteristics

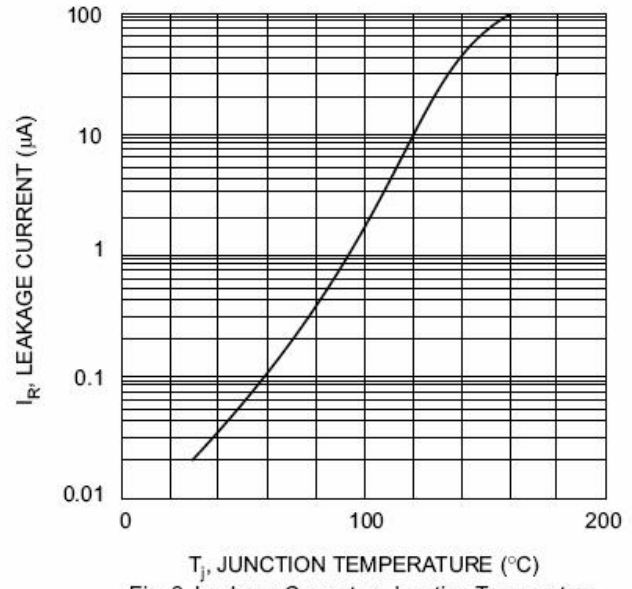


Fig. 2 Leakage Current vs Junction Temperature

Ordering information

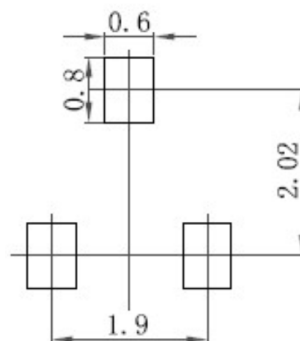
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



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