

SWITCHING DIODE

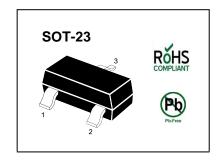
FEATURES

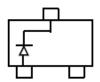
Fast Switching Speed

Surface Mount Package Ideally Suited for Automatic Insertion

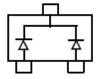
For General Purpose Switching Applications

High Conductance











BAS21

BAS21A

BAS21C

BAS21S

Marking: JS

Marking:JS2

Marking:JS3

Marking: JS4

Maximum Ratings @T_A=25℃

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	V_{RRM}		
Working Peak reverse voltage	V_{RWM}	250	V
DC Blocking Voltage	V_R		
Forward Continuous Current	I _{FM}	400	mA
Average Rectified Output Current	lo	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs		2.5	
@ t = 1.0s	I _{FSM}	0.5	А
Repetitive Peak Forward Surge Current	I _{FRM}	625	mA
Power Dissipation	P _D	225	mW
Thermal Resistance. Junction to Ambient Air	$R_{\theta JA}$	556	°C/W
Junction temperature	TJ	150	°C
Storage temperature range	T _{STG}	-65-150	°C

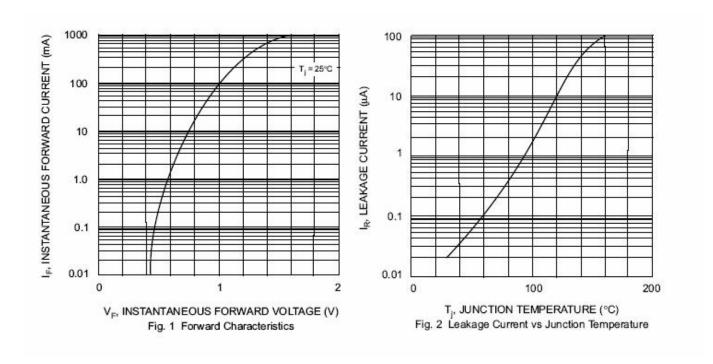
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V _(BR)	I _R = 100μA	250		V
Reverse voltage leakage current	I _R	V _R =200V		1	μA
Forward voltage	V _F	I _F =100mA I _F =200mA		1000 1250	mV
Diode capacitance	C _D	V _R =0V, f=1MHz		5	pF
Reveres recovery time	t _{rr}	$I_F = I_R = 30 \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		50	nS

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Typical Characteristics

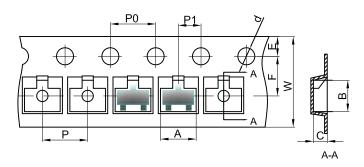


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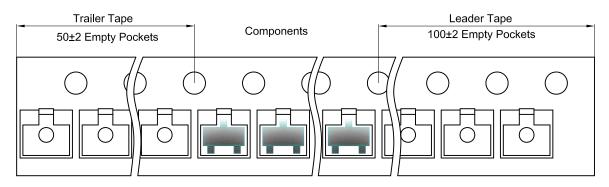
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

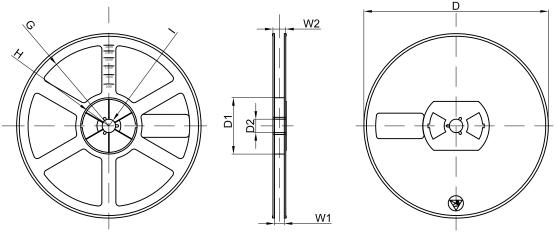


Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer





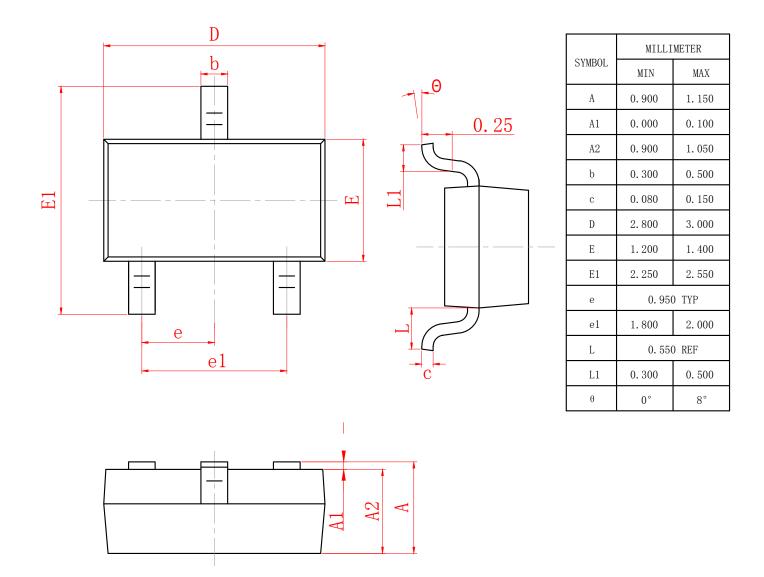


Dimensions are in millimeter								
Reel Option D D1 D2 G H I W1 W2						W2		
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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