MSKSEMI















ESD

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SOT-23

FEATURES

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

BAS21	BAS21A	BAS21C	BAS21S
1 0 3	1 0 3	1 0 3	1 0 3
MARKING: JS	MARKING:JS2	MARKING:JS3	MARKING:JS4
JS	JS2	JS3	JS4

Maximum Ratings @Ta=25℃

Parameter	Symbol	Limit	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	Io	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.5	Α
Repetitive peak forward surge current	I _{FRM}	625	mA
Power dissipation	P _D	225	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	555	°C/W
Junction temperature	TJ	150	°C
Storage temperature range	T _{STG}	-55~+150	$^{\circ}$

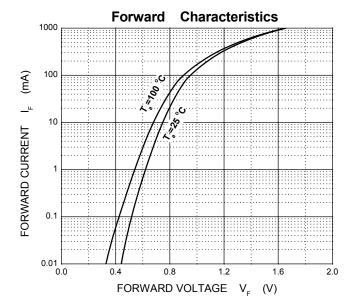
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

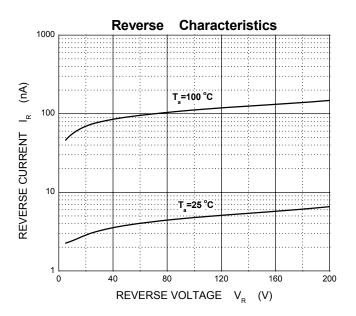
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I _R = 100μA	250		V
Reverse voltage leakage current	I _R	V _R = 200V		0.1	μA
Forward voltage	V _F	I _F =100mA I _F =200mA		1000 1250	mV
Diode capacitance	C _D	V _R =0V, f=1MHz		5	pF
Reveres recovery time	t _{rr}	$I_F=I_R=30$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

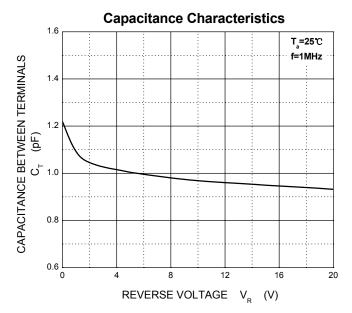


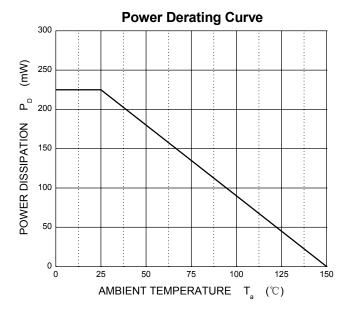






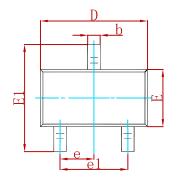


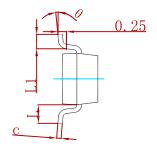


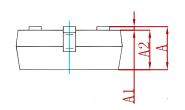




PACKAGE MECHANICAL DATA

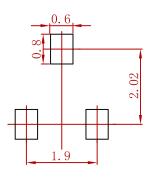






Cumhal	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Suggested Pad Layout



- 1.Controlling dimension:in millimeters.2.General tolerance:± 0.05mm.3.The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
BAS21/A/C/S	SOT-23	3000



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