



ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)					
PARAMETER	CONDITIONS	SYMBOL	MIN	MAX	UNIT
Forward voltage	$I_F = 1.0 \text{mA}, T_J = 25^{\circ}\text{C}$	V _F	-	0.9	V
	I _F = 10mA, T _J = 25°C		-	1.0	
	I _F = 50mA, T _J = 25°C		-	1.1	
	I _F = 150mA, T _J = 25°C		-	1.25	
Reverse voltage	I _R =100μA, T _J = 25°C	V _R	75	_	V
Reverse current	V _R =75V T _J = 25°C		-	5	nA
	V _R =75V T _J = 150°C	- I _R	-	80	
Junction capacitance	f=1 MHz, V _R =0V	CJ	-	2.0	pF
Reverse recovery time	$I_F=10\text{mA}, I_R=10\text{mA},$ $R_L=100\Omega, I_{rr}=1\text{mA}$	t _{rr}	-	3.0	μs

ORDERING INFORMATION					
ORDERING CODE	PACKAGE	PACKING			
BAS116 RF	SOT-23	3K / 7" Reel			
BAS116 RFG	SOT-23	3K / 7" Reel			

Note: "G" means green compound (halogen free)



CHARACTERISTICS CURVES

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Fig.1 Typical Forward Characteristics

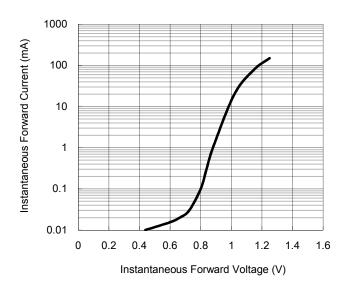


Fig.2 Reverse Current vs.

Reverse Voltage

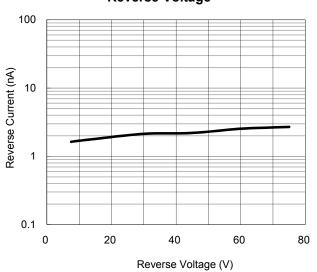


Fig.3 Admissible Power Dissipation Curve

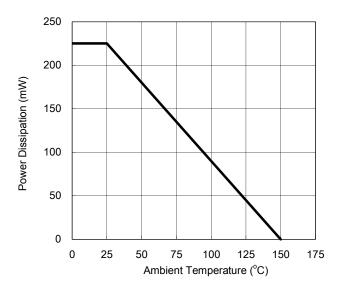
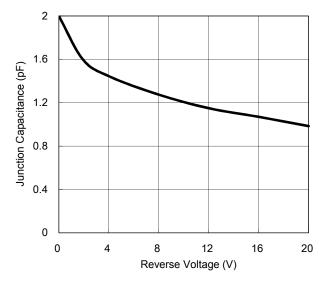


Fig.4 Typical Junction Capacitance

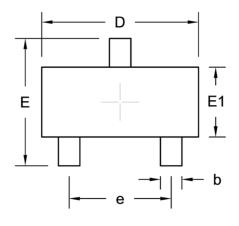


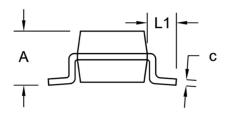
3 Version: F2001



PACKAGE OUTLINE DIMENSION

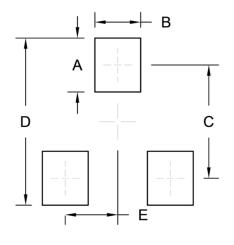
SOT-23





DIM.	Unit (mm)		Unit (inch)		
Dilvi.	Min.	Max.	Min.	Max.	
А	0.89	1.12	0.035	0.044	
b	0.30	0.50	0.012	0.020	
С	0.08	0.20	0.003	0.008	
D	2.80	3.04	0.110	0.120	
E	2.10	2.64	0.083	0.104	
E1	1.20	1.40	0.047	0.055	
е	1.90 BSC		0.07	5 BSC	
L1	0.54 REF.		0.021 REF.		

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.00	0.039
В	0.85	0.033
С	2.10	0.083
D	3.10	0.122
Е	0.98	0.039

4 Version: F2001



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