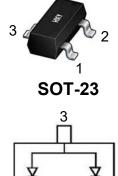


### Features

- Peak Forward Current: I<sub>FM</sub>=200 mA
- Power Dissipation of 200mw

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS40-06	SOT-23	46	3000



# Maxmim Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	40	V
Forward Continuous Current	I <sub>FM</sub>	200	mA
Average Rectified Output Current	Ι <sub>Ο</sub>	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I <sub>FSM</sub>	0.6	А
Power Dissipation	PD	200	mW
Thermal Resistance Junction to Ambient	R <sub>0JA</sub>	500	°C/W
Operating Junction Temperature	TJ	125	°C
Storage Temperature	T <sub>STG</sub>	-55~+150	°C

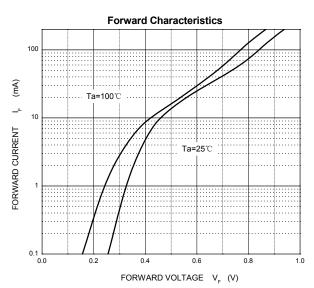
### Electrcal Charcteristics (Ta=25°C unless otherwise specified)

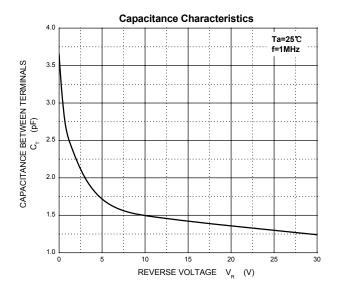
Parameter	Symbol	Test conditions	Min	Мах	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	Ι <sub>R</sub> =10μΑ	40		V
Reverse voltage leakage current	I <sub>R</sub>	V <sub>R</sub> =30V		200	nA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =1mA I <sub>F</sub> =40mA		380 1000	mV
Diode capacitance	CD	V <sub>R</sub> =0,f=1MHz		5	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>rr</sub> =1mA, I <sub>R</sub> =I <sub>F</sub> =10mA R <sub>L</sub> =100Ω		5	ns

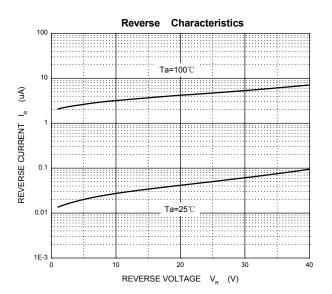


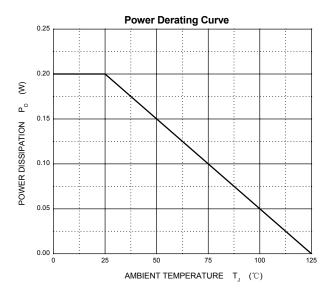
# BAS40-06 SCHOTTKY BARRIER DIODE

# **Typical Characteristics**



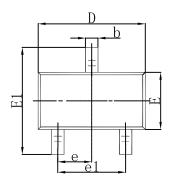


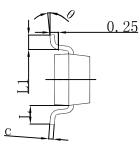


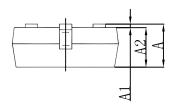




# **SOT-23 Package Outline Dimensions**







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	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	
Ш	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°	

## SOT-23 Suggested Pad Layout



Note: 1.Controlling dimension: in millimeters.

2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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