



Product data sheet

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BAS40/-04/-05/-06 HF 🐼

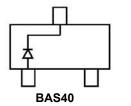
Semiconductor Compiance

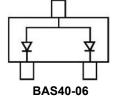


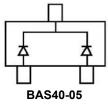
FEATURES

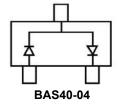
- Low Forward Voltage
- Fast Switching

SOT-23









MARKING:

BAS40	BAS40-06	BAS40-05	BAS40-04
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Maximum Ratings @Ta=25℃

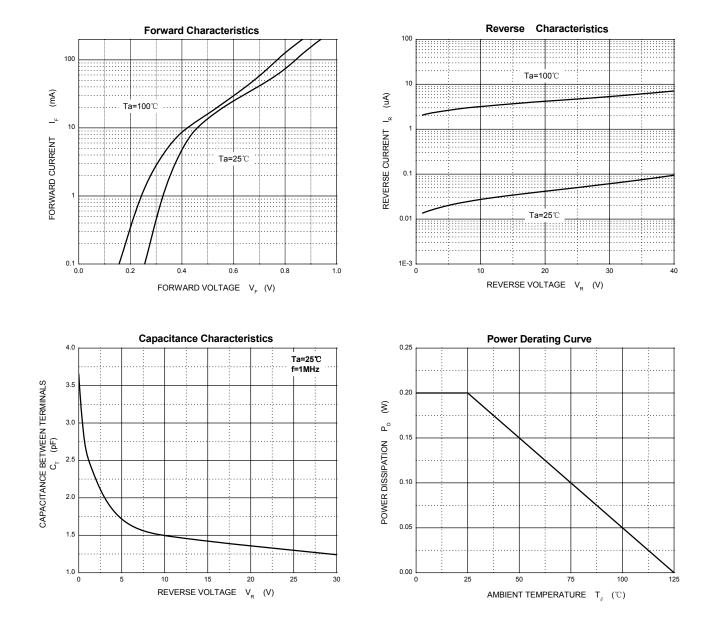
Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
Forward Continuous Current	IFM	200	mA
Average Rectified Output Current	Io	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I _{FSM}	0.6	А
Power Dissipation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

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =10µA	40		V
Reverse voltage leakage current	I _R	V _R =30V		200	nA
Forward voltage	V _F	I _F =1mA I _F =40mA		380 1000	mV
Diode capacitance	CD	V _R =0,f=1MHz		5	pF
Reverse recovery time	t _{rr}	I _{rr} =1mA, I _R =I _F =10mA R _L =100Ω		5	ns





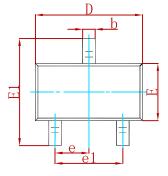


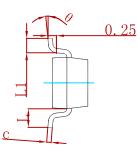


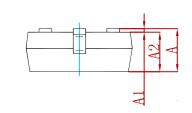
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PACKAGE MECHANICAL DATA

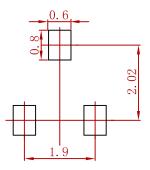






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		0.037 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



Note: 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
BAS40/-04/-05/-06	SOT-23	3000



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