MSKSEMI 美森科













ESD

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TSS

MOV

GDT

PIFD

BAS40W/-04/-05/-06

Product specification





FEATURES

- Low Forward Voltage
- Fast Switching

Reference News

PACKAGE OUTLINE	BAS40W	BAS40W-06	BAS40W-05	BAS40W-04
3	*	¥		Ţ.
1	43	46	45	44
SOT-323	MARKING:43	MARKING:46 MARKING:45 MARK		MARKING:44

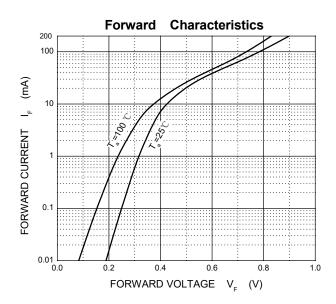
Maximum Ratings @Ta=25℃

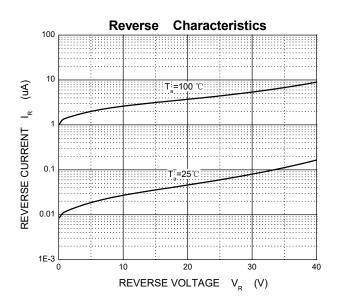
Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	V _{RRM}		
Working peak reverse voltage	V _{RWM}	40	V
DC blocking voltage	V _R		
Forward continuous current	I _{FM}	200	mA
Power dissipation	P _D	150	mW
Thermal resistance junction to ambient	R _{0JA}	667	°C/W
Operating Junction Temperature Range	TJ	-40 ~ +125	℃
Storage Temperature Range	Tstg	-55 ~ +150	$^{\circ}$

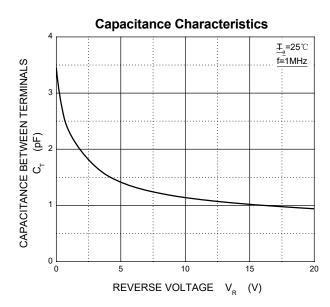
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

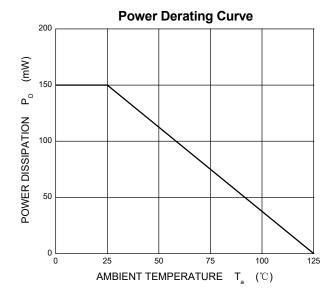
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	l _R = 10μA	40		٧
Reverse voltage leakage current	lR	V _R =30V		200	nA
Forward voltage	VF	l _F =1mA l _F =40mA		380 1000	mV
Diode capacitance	C _D	V _R =0,f=1MHz		5	pF
Reverse recovery time	t rr	I_{rr} =1mA, I_{R} = I_{F} =10mA R_{L} =100 Ω		5	ns





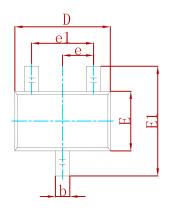


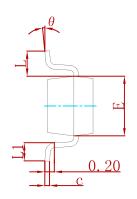


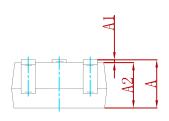




PACKAGEMECHANICALDATA

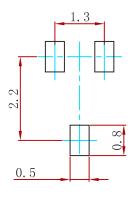






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
Α	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
С	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
Е	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
е	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
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
BAS40W/-04/-05/-06	SOT-323	3000



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