# MSKSEMI 美森科













ESD

TVS

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GDT

PLED

BAS40W/-04/-05/-06

## Product specification



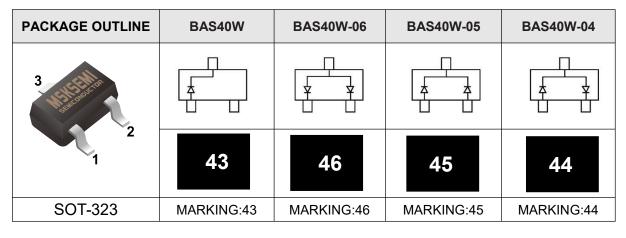
BAS40W/-04/-05/-06

## SEMICONDUCTOR

#### **FEATURES**

- Low Forward Voltage
- Fast Switching

#### **Reference News**



#### Maximum Ratings @Ta=25℃

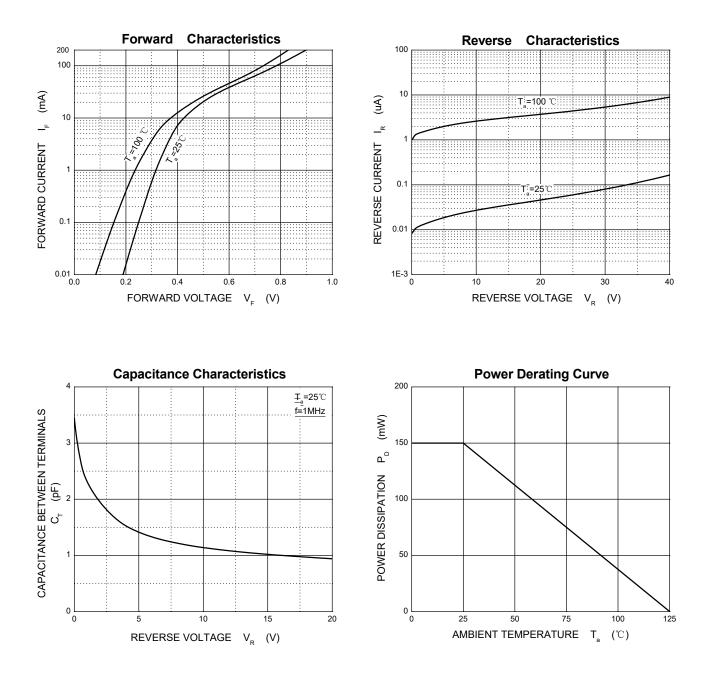
Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	VRRM		
Working peak reverse voltage	V <sub>RWM</sub>	40	V
DC blocking voltage	VR		
Forward continuous current	IFM	200	mA
Power dissipation	Po	150	mW
Thermal resistance junction to ambient	Reja	667	°C/W
Operating Junction Temperature Range	TJ	-40 ~ +125	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C

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

Parameter	Symbol	Test conditions	Min	Мах	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> = 10µA	40		V
Reverse voltage leakage current	IR	V <sub>R</sub> =30V		200	nA
Forward voltage	VF	l⊧=1mA l⊧=40mA		380 1000	mV
Diode capacitance	CD	V <sub>R</sub> =0,f=1MHz		5	pF
Reverse recovery time	trr	lr=1mA, IR=Ir=10mA RL=100Ω		5	ns

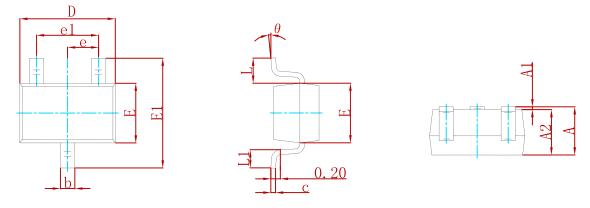






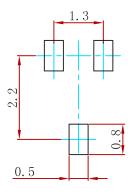


#### PACKAGEMECHANICALDATA



Max   1.100   0.100   1.000   0.400   0.150   2.200	0.000 0.035 0.008 0.003	Max   0.043   0.004   0.039   0.016   0.006	
0.100 1.000 0.400 0.150	0.000 0.035 0.008 0.003	0.004 0.039 0.016 0.006	
1.000 0.400 0.150	0.035 0.008 0.003	0.039 0.016 0.006	
0.400	0.008	0.016	
0.150	0.003	0.006	
2 200	0.070		
2.200	0.079	0.087	
1.350	0.045	0.053	
2.450	0.085	0.096	
0.650 TYP		0.026 TYP	
1.400	0.047	0.055	
0.525 REF		0.021 REF	
0.460	0.010	0.018	
	0°	8°	
	1.400 .525 REF 0.460	1.400 0.047 .525 REF 0	

#### 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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