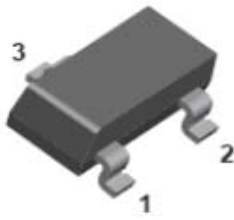


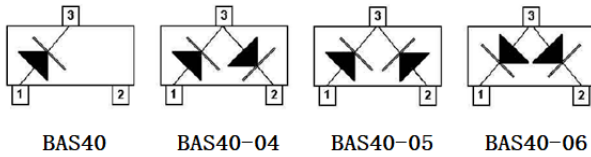
Schottky Barrier Diode



SOT-323

Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Low Forward Voltage
- Surface Mount device



BAS40

BAS40-04

BAS40-05

BAS40-06

Marking

BAS40WT	43
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■Maximum Rating ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Value	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC Blocking voltage	VRRM VRWM VR	40	V
Forward continuous current	IFM	200	mA
Non-Repetitive Peak Forward Surge Current @ 8.3ms half-sine wave	IFSM	A	0.6
Power dissipation	PD	200	mW
Thermal resistance junction to ambient	R θ JA	500	$^{\circ}\text{C}/\text{W}$
Junction temperature	TJ	125	$^{\circ}\text{C}$

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS40WT THRU BAS40WT-06	F2	Approximate 0.005	3000	30000	120000	7" reel

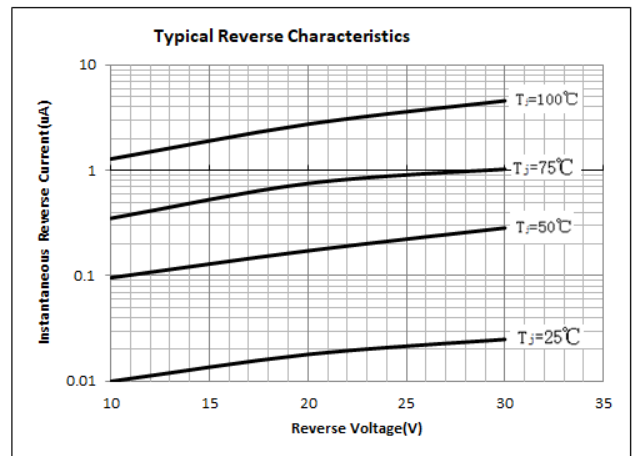
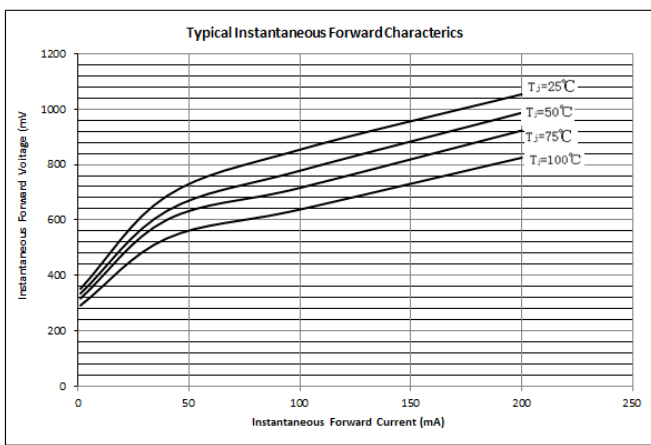


BAS40WT THRU BAS40WT-06

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V(BR)	IR=10μA	40		V
Reverse voltage leakage current	IR	VR=30V		200	nA
Forward voltage	VF	IF=1 mA IF=40mA		380 1000	mV
Diode capacitance	Cj	VR=0V f=1MHz		5	pF
Reverse recovery time	trr	Irr=0.5mA, IR=IF=5mA RL=100Ω		5	ns

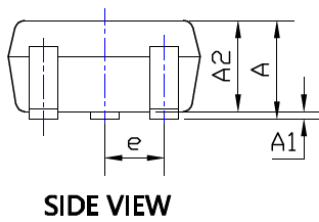
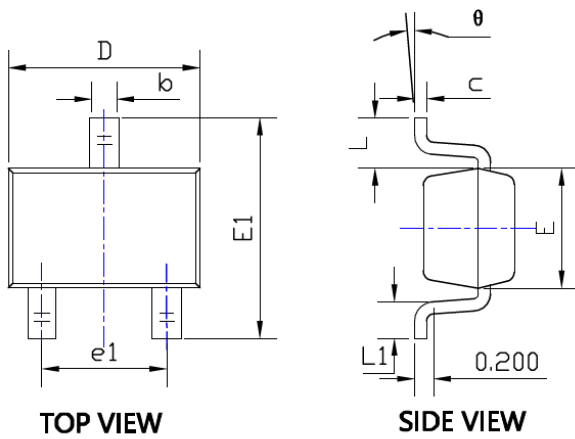
■ Typical Characteristics





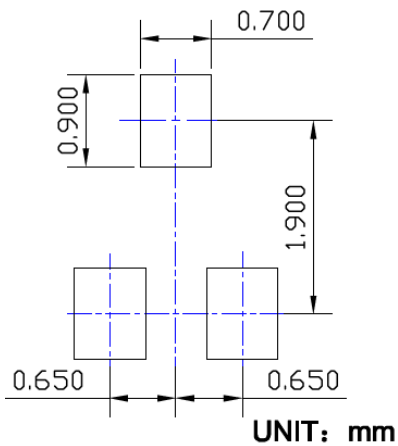
BAS40WT THRU BAS40WT-06

■SOT-323 Package Outline Dimensions



SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.043	0.900	1.100
A1	0.000	0.004	0.000	0.100
A2	0.035	0.039	0.900	1.000
b	0.006	0.016	0.150	0.400
c	0.004	0.010	0.100	0.250
D	0.071	0.087	1.800	2.200
E	0.045	0.053	1.150	1.350
E1	0.085	0.096	2.150	2.450
e	0.026TYP		0.650TYP	
e1	0.047	0.055	1.200	1.400
L	0.021REF		0.525REF	
L1	0.010	0.018	0.260	0.460
θ	0°	8°	0°	8°

■SOT-323 Soldering Footprint





BAS40WT THRU BAS40WT-06

Disclaimer

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