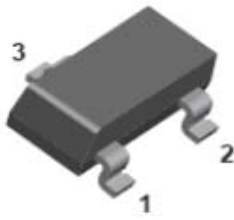


Schottky Barrier Diode

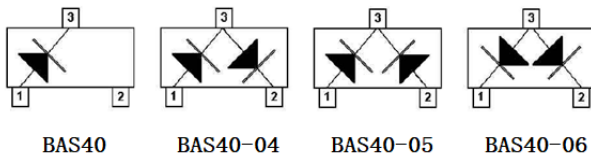


SOT-323

Features

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

Marking



BAS40WT	43
BAS40WT-04	44
BAS40WT-05	45
BAS40WT-06	46

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

Item	Symbol	Value	Unit
Peak repetitive peak reverse voltage	VRRM	40	V
Working peak reverse voltage DC Blocking voltage	VRWM VR		
Forward continuous current	IFM		
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

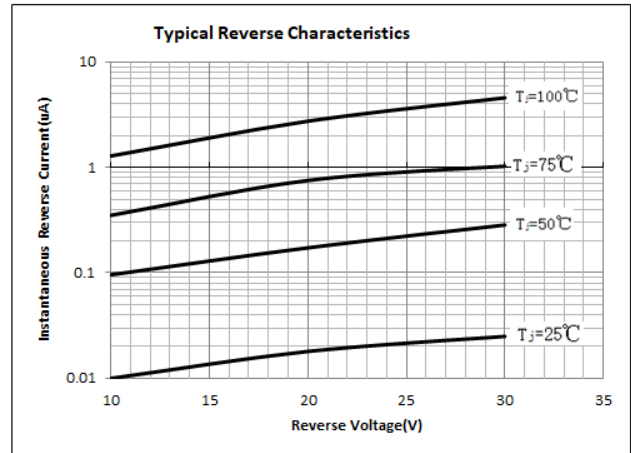
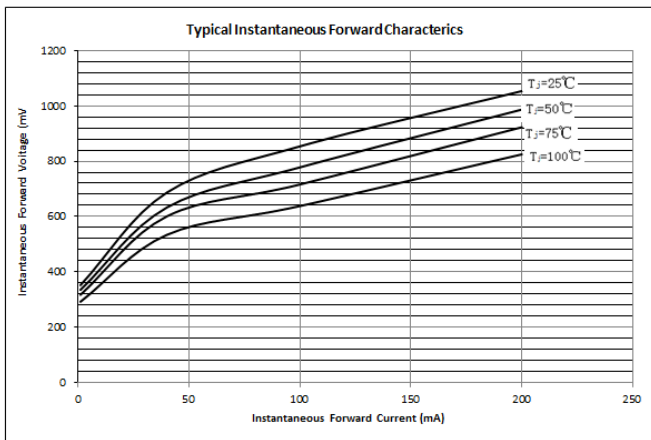


BAS40WT THRU BAS40WT-06

■ 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

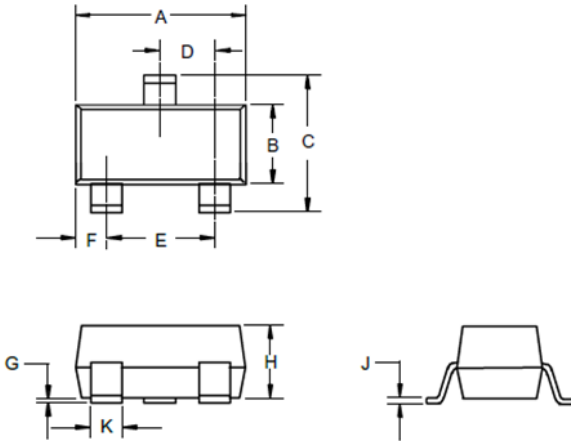
■ Typical Characteristics





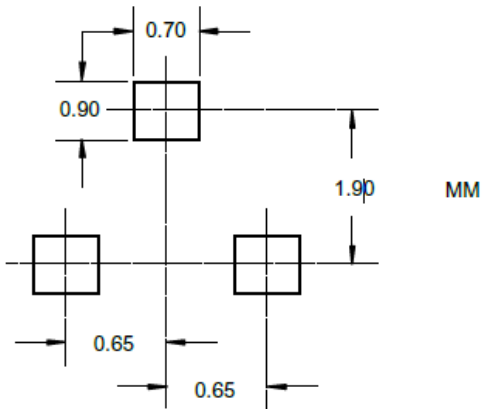
BAS40WT THRU BAS40WT-06

■ SOT-323 Package Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

■ SOT-323 Suggested Pad Layout





BAS40WT THRU BAS40WT-06

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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