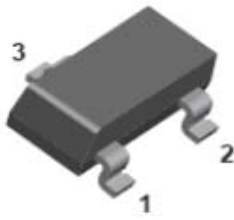


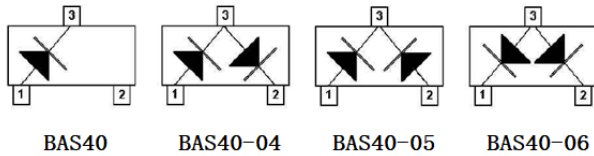
## Schottky Barrier Diode



### Features

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

### Marking



BAS40	43
BAS40-04	44
BAS40-05	45
BAS40-06	46

### ■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
Power dissipation	PD	200	mW
Thermal resistance junction to ambient	R $\theta$ JA	500	$^{\circ}\text{C}/\text{W}$
Junction temperature	TJ	-55 to +125	$^{\circ}\text{C}$
Storage Temperature	Tstg	-55 to +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
BAS40 THRU BAS40-06	F2	Approximate 0.008	3000	30000	120000	7" reel

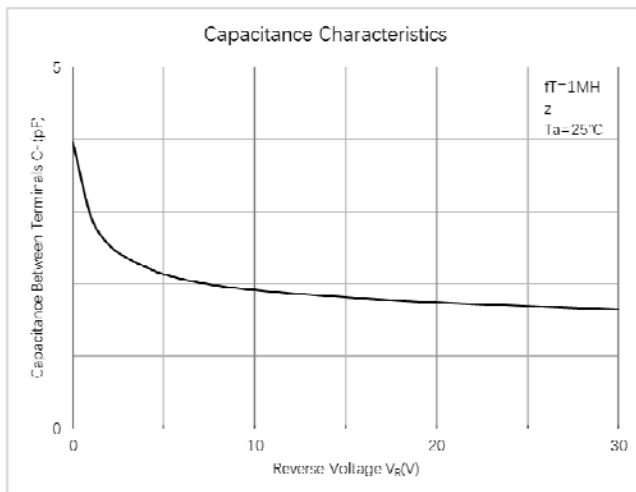
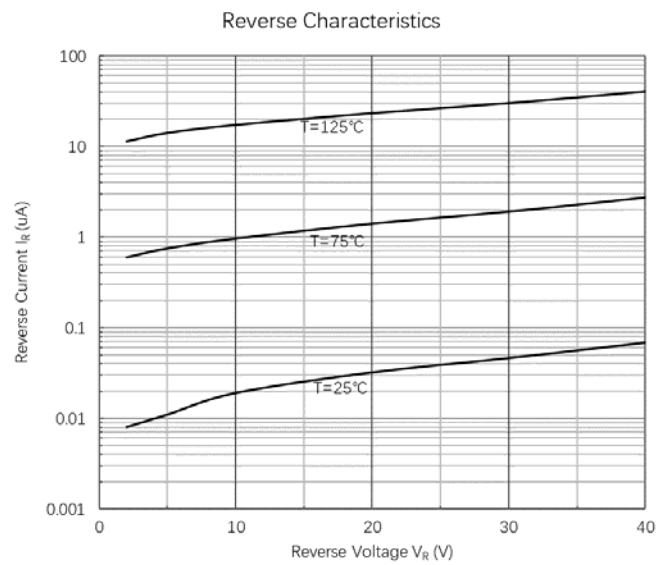
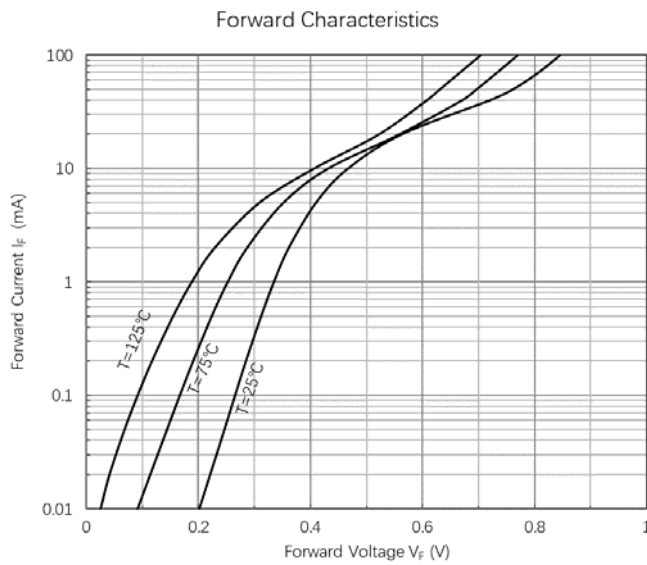


# BAS40-04 THRU BAS40-06

## ■ Electrical Characteristics (T<sub>a</sub>=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

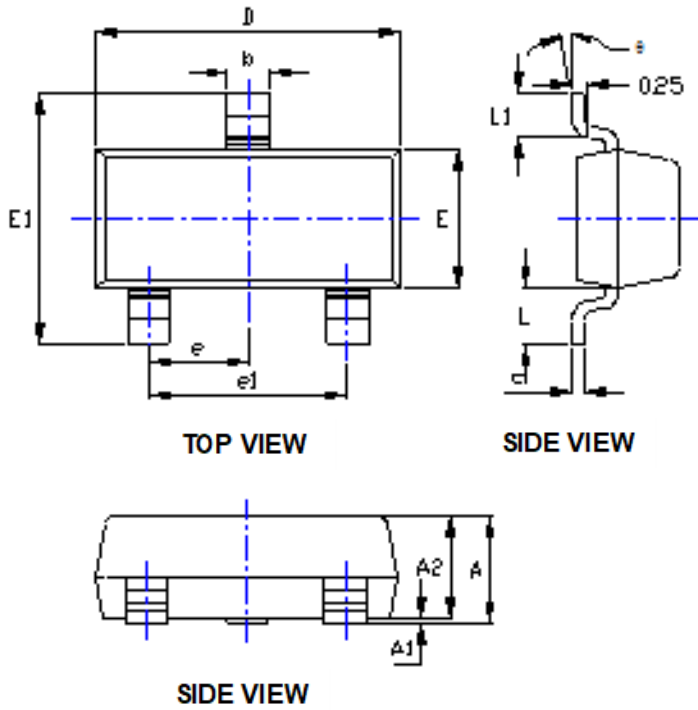
## ■ Typical Characteristics





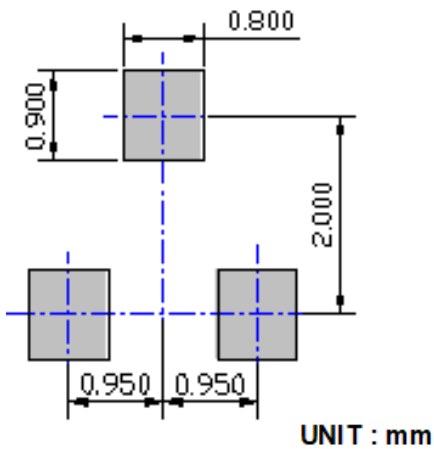
## BAS40-04 THRU BAS40-06

### ■SOT-23 Package Outline Dimensions



DIMENSIONS				
SYMBOL	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100
A2	0.035	0.041	0.900	1.050
b	0.012	0.020	0.300	0.500
c	0.004	0.008	0.100	0.200
D	0.110	0.118	2.800	3.000
E	0.047	0.055	1.200	1.400
E1	0.089	0.100	2.250	2.550
e	0.037TYP		0.950TYP	
e1	0.071	0.079	1.800	2.000
L	0.022REF		0.550REF	
L1	0.012	0.020	0.300	0.500
θ	0°	8°	0°	8°

### ■SOT-23Suggested Pad Layout





## BAS40-04 THRU BAS40-06

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### Disclaimer

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