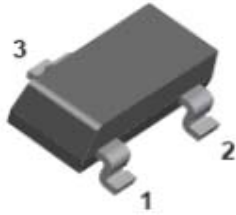


## Schottky Barrier Diode



BAS70WT



BAS70WT-04



BAS70WT-05



BAS70WT-06

### Features

- Epoxy meets UL-94 V-0 flammability rating
- Meets MSL level 1, per J-STD-020C, LF max peak of 260 °C
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### Mechanical Data

- **Package:** SOT-323
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

### Marking:

BAS70WT	K73
BAS70WT-04	K74
BAS70WT-05	K75
BAS70WT-06	K76

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

Item	Symbol	Unit	Value
Continuous Reverse Voltage	$V_R$	V	70
Forward Continuous Current	$I_F$	mA	70
Non-Repetitive Peak Forward Surge Current @ $t = 8.3\text{ms}$	$I_{FSM}$	A	0.1
Junction Temperature	$T_J$	$^\circ\text{C}$	-55 to +125
Storage Temperature range	$T_{stg}$	$^\circ\text{C}$	-55 to +125

### ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS70WT	F2	Approximate 0.005	3000	30000	120000	7" reel
BAS70WT-04	F2	Approximate 0.005	3000	30000	120000	7" reel
BAS70WT-05	F2	Approximate 0.005	3000	30000	120000	7" reel
BAS70WT-06	F2	Approximate 0.005	3000	30000	120000	7" reel



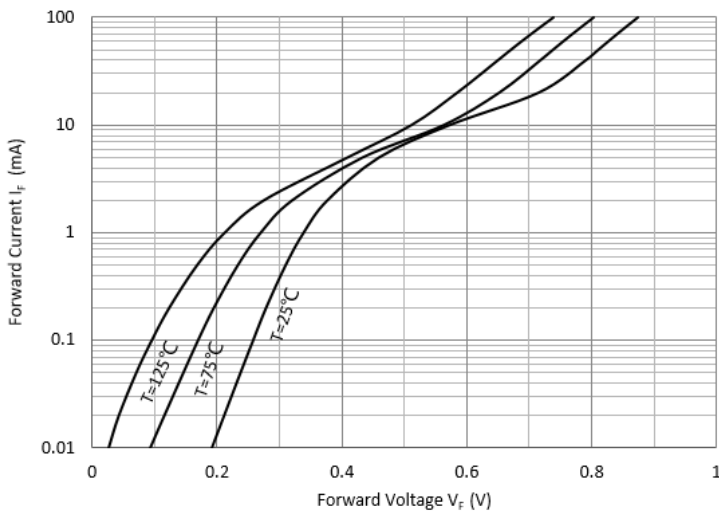
# BAS70WT THRU BAS70WT-06

## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

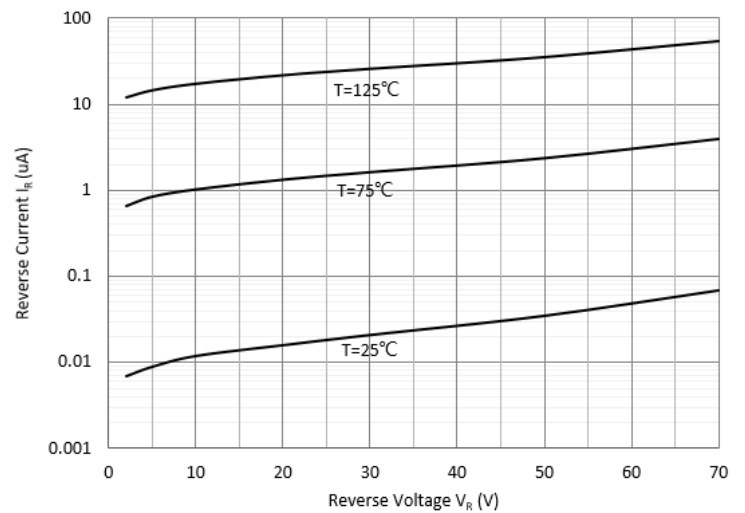
Item	Symbol	Unit	Conditions	Value
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	V	I <sub>FM</sub> =1mA	0.41
			I <sub>FM</sub> =15mA	1
Continuous Reverse Voltage	V <sub>R</sub>	V	I <sub>R</sub> =10uA	70
Maximum DC Reverse Current	I <sub>R</sub>	uA	V <sub>R</sub> =50V	0.2
Maximum Junction Capacitance	C <sub>J</sub>	pF	f=1.0MHz, V <sub>R</sub> =1.0V	2
Maximum Reverse Recovery Time	T <sub>rr</sub>	ns	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>(REC)</sub> =1mA	5

## ■ Typical Characteristics

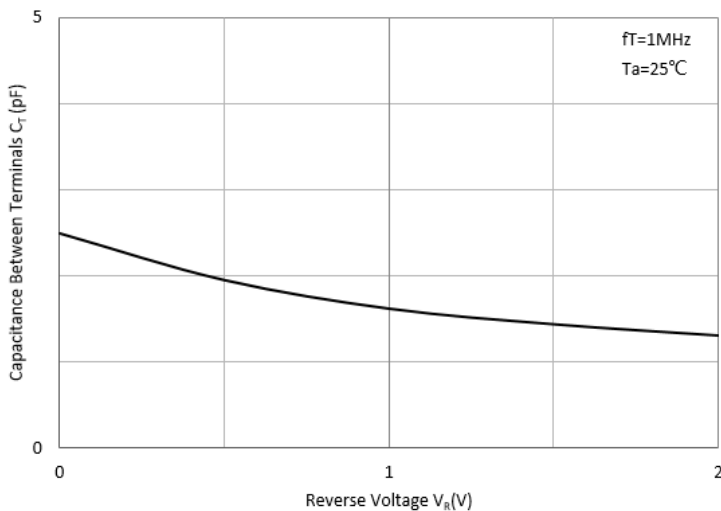
Forward Characteristics



Reverse Characteristics



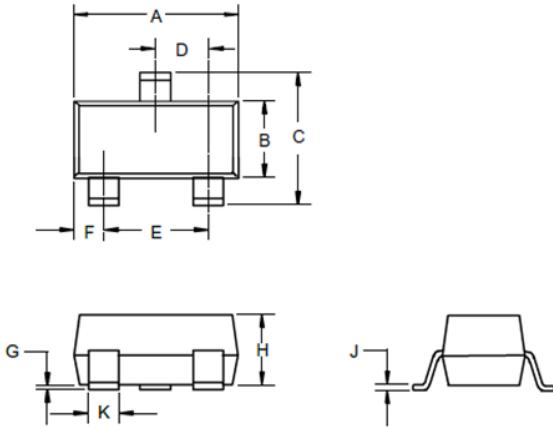
Capacitance Characteristics





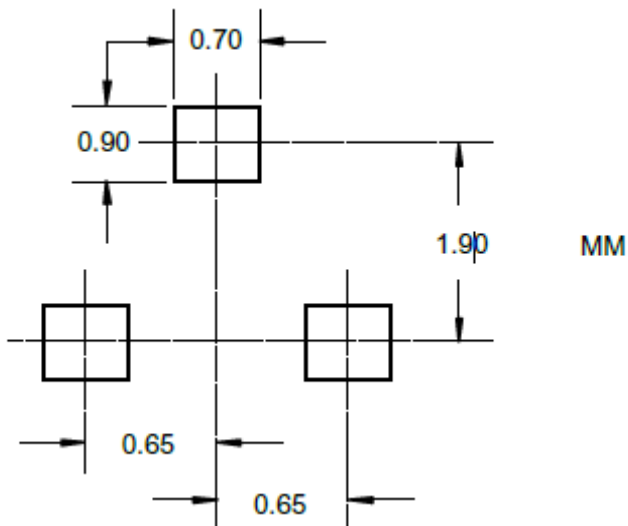
## BAS70WT THRU BAS70WT-06

### ■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 Soldering Footprint





## BAS70WT THRU BAS70WT-06

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