

**M•C•C•**

Micro Commercial Components

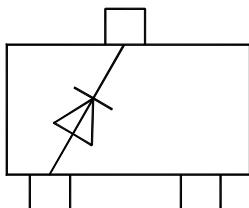


Micro Commercial Components  
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**BAS19WT**  
**BAS20WT**  
**BAS21WT**

## Features

- Power dissipation: 200mW ( $T_{amb}=25^{\circ}\text{C}$ )
- Collector current: 200mA
- Halogen free available upon request by adding suffix "-HF"



**Marking:** BAS19W KA8  
BAS20W KT2  
BAS21W KT3

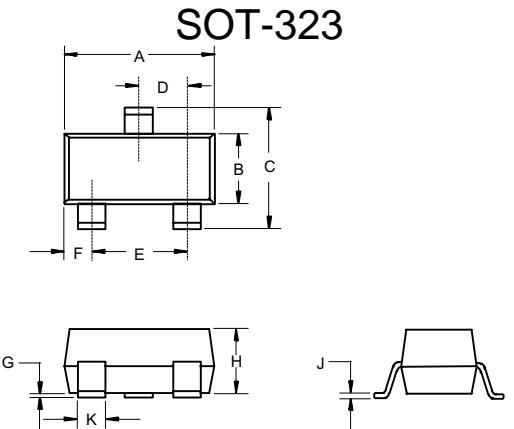
## Maximum Ratings

- Operating Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Storage Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Electrical Characteristics @ $25^{\circ}\text{C}$ Unless Otherwise Specified

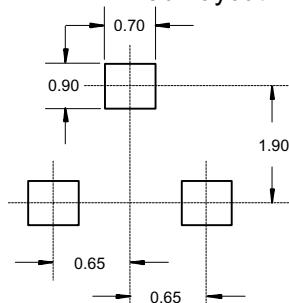
Reverse Voltage BAS19WT BAS20WT BAS21WT	$V_R$	100V 150V 200V	$I_R=100 \mu\text{A}$
Peak Forward Current	$I_F$	200mA	
Maximum Instantaneous Forward Voltage	$V_F$	1.0V 1.25V	$I_{FM}=100\text{mA}$ ; $I_{FM}=200\text{mA}$ ;
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.1 $\mu\text{A}$	$V_R=100\text{Volts(BAS19WT)}$ $V_R=150\text{Volts(BAS20WT)}$ $V_R=200\text{Volts(BAS21WT)}$
Diode Capacitance	$C_D$	5pF	Measured at 1.0MHz, $V_R=0\text{V}$
Reverse Recovery Time	$T_{rr}$	50ns	$I_F=I_R=30\text{mA}$ $I_{rr}=0.1I_R$

## 200mW Switching Diode



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
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	.012	.016	.30	.40	

### Suggested Solder Pad Layout



<sup>TM</sup>

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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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