Features

- Collector Current: 200mA
- Halogen Free. “Green” Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

200mW Switching Diode

Maximum Ratings

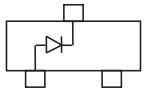
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
BAS19WT	KA8
BAS20WT	KT2
BAS21WT	KT3

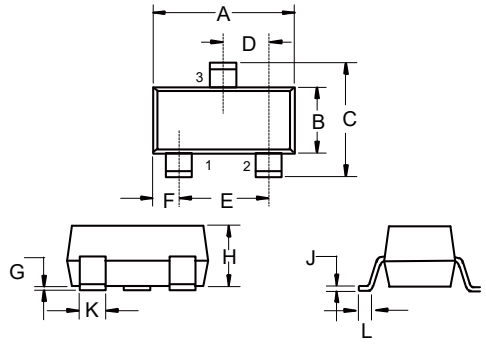
Forward Continuous Current	I_F	200mA	
Power Dissipation	Pd	200mW	T_A=25°C

Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure:

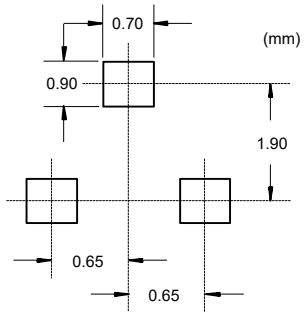


SOT-323



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
H	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Breakdown Voltage BAS19WT BAS20WT BAS21WT	V_R	 100V 150V 200V	I_R=100.0μA
Maximum Forward Voltage	V_F	1.000V 1.250V	I_{FM}=100.0mA I_{FM}=200.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage BAS19WT BAS20WT BAS21WT	I_R	0.1μA	V_R=100V V_R=150V V_R=200V
Diode Capacitance	C_d	5.0pF	V_R=0.0V,f=1.0MHz
Reverse Recovery Time	t_{rr}	50.0ns	I_F=30mA, I_R=30mA I_{rr}=0.1*I_R

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

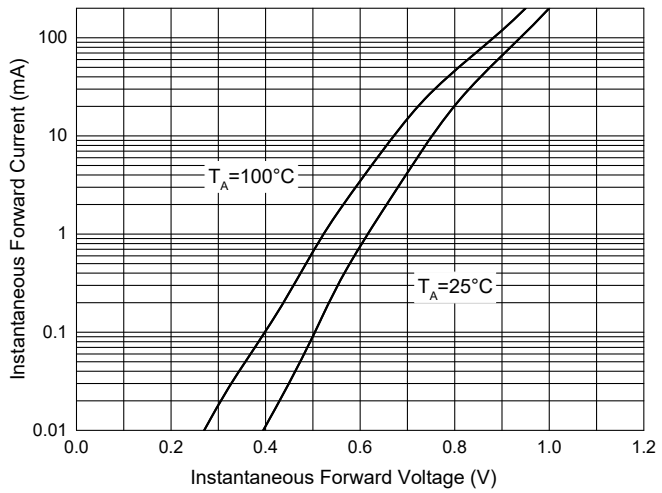


Fig. 2 - Typical Reverse Leakage Characteristics

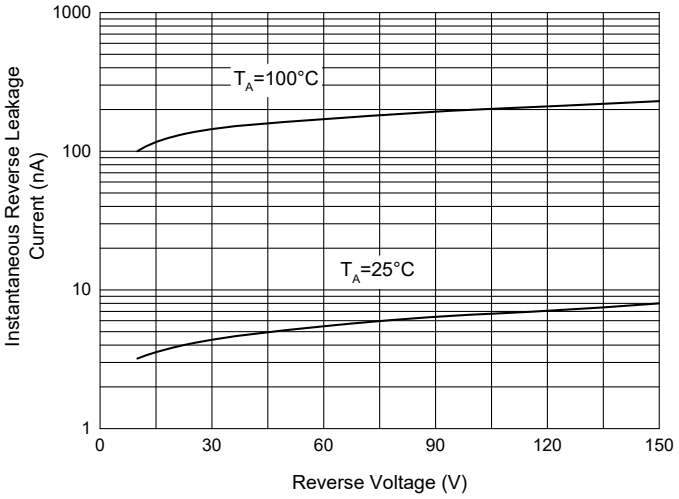
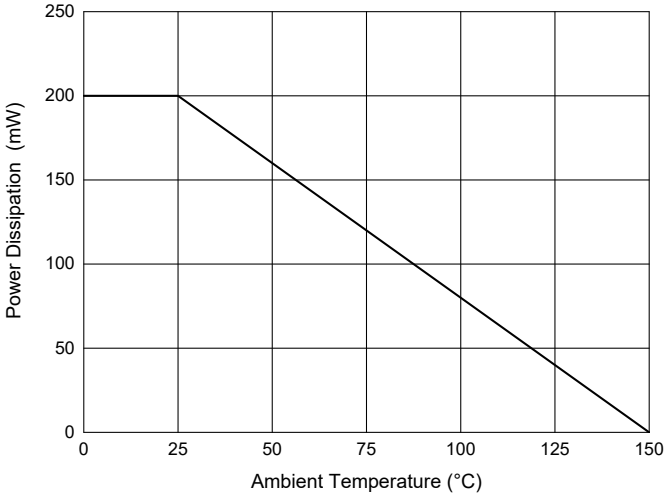


Fig. 3 - Power Derating Curve



Ordering Information

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

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