

**Features**

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- High Conductance
- For General Purpose Switching Applications
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating

**Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C

MCC Part Number	Device Marking	Peak Repetitive Reverse Voltage $V_{RRM}$
BAS21T	T3	250V

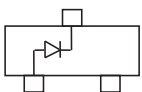
Average Rectified Output Current	$I_o$	200mA	
Peak Forward Surge Current	$I_{FSM}$	9.0A 0.5A	@ t=1.0us @ t=1.0s
Power Dissipation	$P_D$	150mW	

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Maximum Forward Voltage	$V_F$	1.000V 1.250V	$I_F=100.0mA$ $I_F=250.0mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	100nA	$V_R=250V$
Typical Junction Capacitance	$C_T$	5pF	$V_R=0.0V, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	50nS	$I_F=30mA, I_R=30mA$ $I_{rr}=0.1 \cdot I_R, R_C=100\Omega$

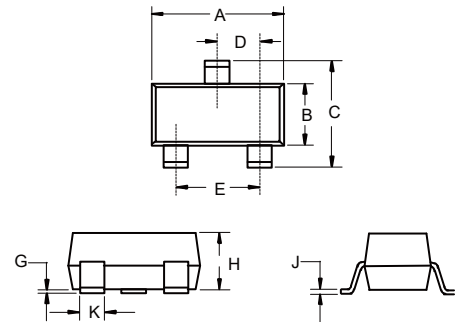
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**Internal Structure**



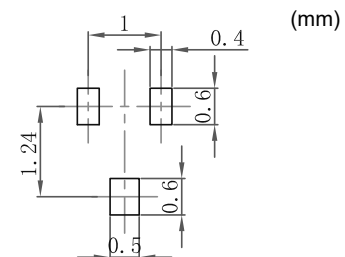
**150mW 85Volt Switching Diode**

**SOT-523**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.059	0.067	1.50	1.70	
B	0.030	0.033	0.75	0.85	
C	0.057	0.069	1.45	1.75	
D	0.020 Nominal		0.50 Nominal		
E	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
H	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
K	0.006	0.014	0.15	0.35	

**Suggested Solder Pad Layout**



**Curve Characteristics**

Fig. 1 - Typical Instantaneous Forward Characteristics

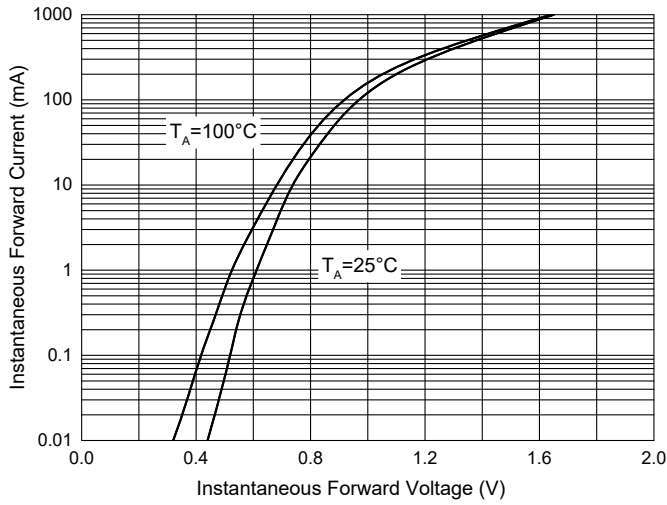


Fig. 2 - Typical Reverse Leakage Characteristics

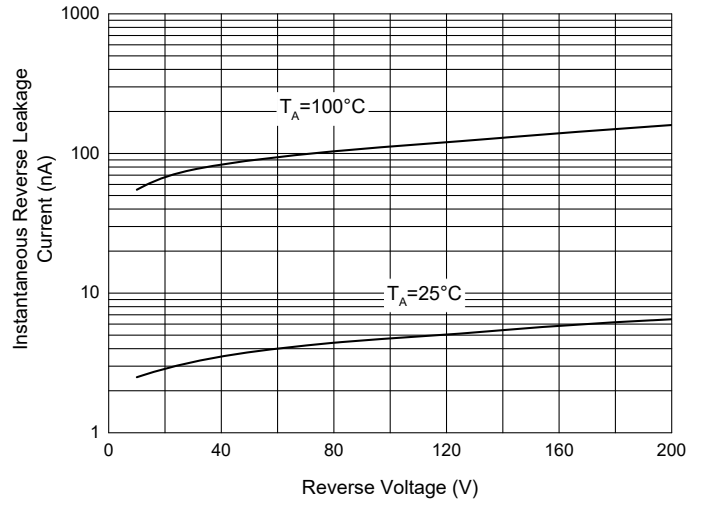
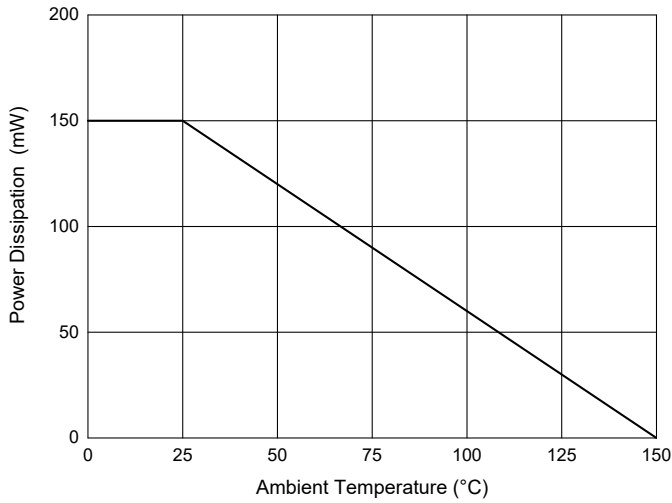


Fig. 3 - Power Derating Curve



## Ordering Information

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

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