

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

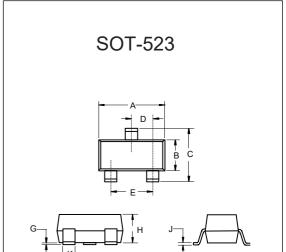
Maximum Forward Voltage	V _F	1.000V 1.250V	I _F =100.0mA I _F =250.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	100nA	V _R =250V
Typical Junction Capacitance	C _T	5pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	50nS	I_F =30mA, I_R =30mA I_{rr} =0.1* I_R , R_c =100 Ω

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

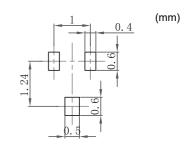


150mW 85Volt Switching Diode



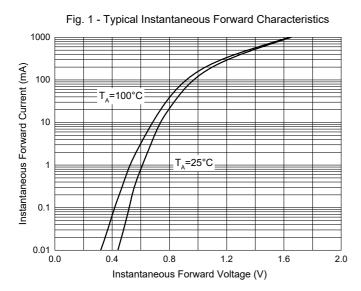
DIMENSIONS					
DIM	INC	HES	MM		NOTE
ווועו	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.020 Nominal 0.50 Nom		ominal		
E	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
K	0.006	0.014	0.15	0.35	

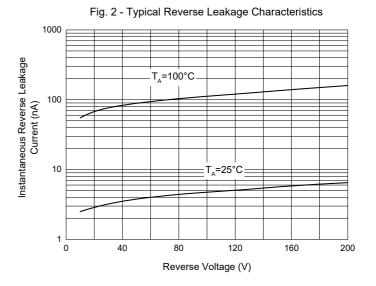
Suggested Solder Pad Layout

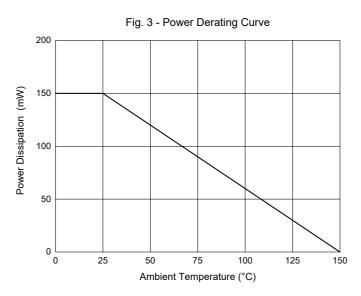




Curve Characteristics









Ordering Information

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

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