Features

- High Speed Switching Application.
- 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)
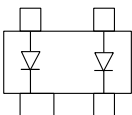
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V_{RRM}	Continuous Reverse Voltage V_R
BAS28	JT	85V	75V

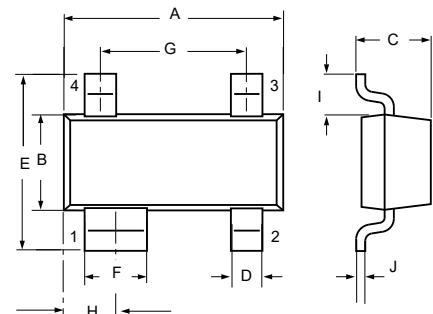|			
Forward Continuous Current	I_F	215mA	
Non-Repetitive Peak Forward Surge Current	I_{FSM}	4.0A 1.0A 0.5A	t=1us t=1ms t=1s
Repetitive Peak Forward Curren	I_{FRM}	500mA	
Power Dissipation	Pd	250mW	

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:

High-Speed Double Diode

SOT-143

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.047	0.055	1.20	1.39	
C	0.031	0.048	0.80	1.22	
D	0.011	0.020	0.30	0.51	
E	0.082	0.104	2.10	2.64	
F	0.029	0.037	0.76	0.94	
G	0.070	0.080	1.78	2.03	
H	0.028	0.033	0.72	0.83	
I	0.015	0.024	0.40	0.60	
J	0.003	0.008	0.08	0.20	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Reverse Breakdown Voltage	V_{BR}	75V	I_R=100.0µA
Maximum Forward Voltage	V_F	0.715V 0.855V 1.000V 1.250V	I_F=1.0mA I_F=10.0mA I_F=50.0mA I_F=100.0mA
Maximum Reverse Current	I_R	0.03µA 1.0µA 30µA 50µA	V_R=25V V_R=75V V_R=25V,T_J=150°C V_R=75V,T_J=150°C
Maximum Forward recovery voltage	V_{fr}	1.75V	I_F=10mA,t_r=20ns
Maximum Diodes Capacitance	C_d	1.5pF	V_R=0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t_{rr}	4.0ns	I_F=10mA, I_R=10mA I_{rr}=0.1*I_R

Curve Characteristics
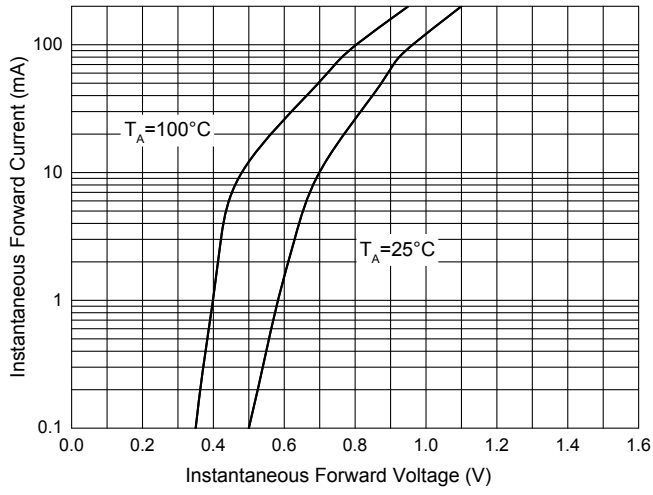
Fig. 1 - Typical Instantaneous Forward Characteristics
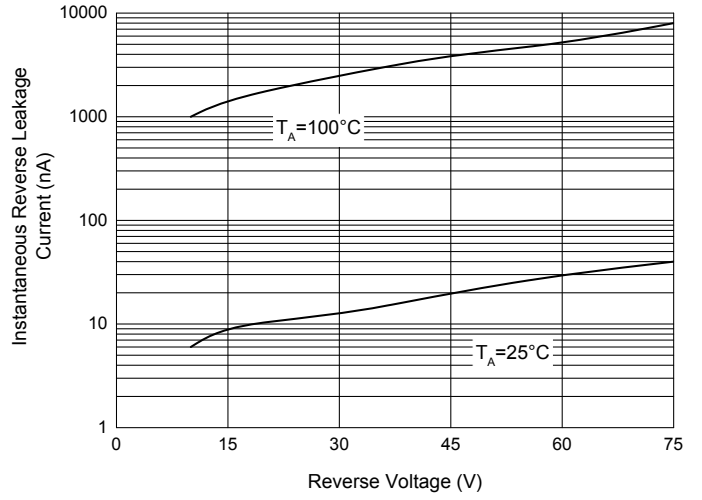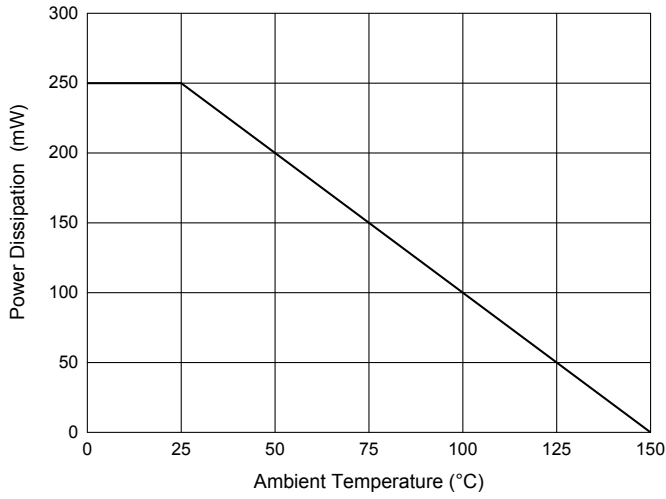

Fig. 2 - Typical Reverse Leakage Characteristics

Fig. 3 - Power Derating Curve

Ordering Information

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

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