

### 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

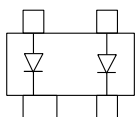
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

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	$t=1\mu s$ $t=1ms$ $t=1s$
Repetitive Peak Forward Current	$I_{FRM}$	500mA	
Power Dissipation	$P_d$	250mW	

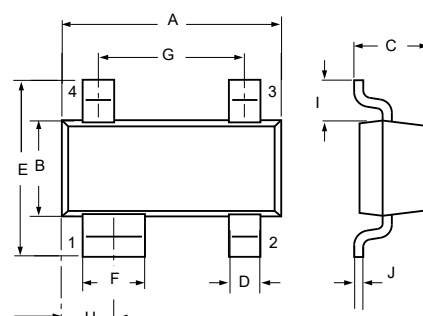
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

### Internal Structure:



## High-Speed Double Diode

### SOT-143



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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	$I_R=100.0\mu A$
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	$I_R$	0.03 $\mu A$ 1.0 $\mu A$ 30 $\mu A$ 50 $\mu A$	$V_R=25V$ $V_R=75V$ $V_R=25V, T_J=150^\circ C$ $V_R=75V, T_J=150^\circ C$
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

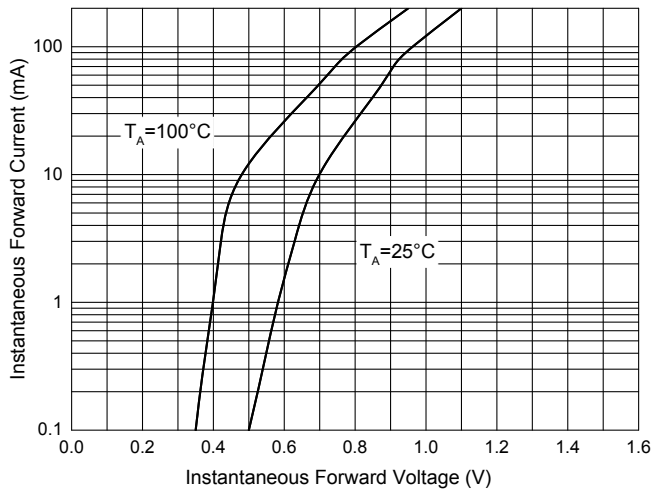


Fig. 2 - Typical Reverse Leakage Characteristics

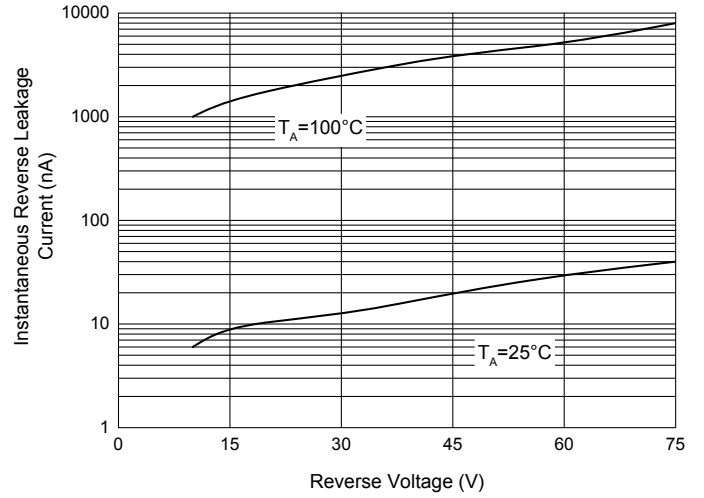
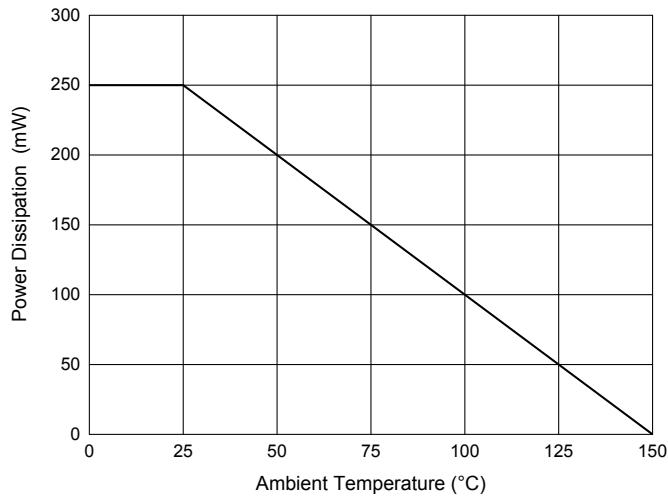


Fig. 3 - Power Derating Curve



## Ordering Information

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

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