

**Features**

- Protects From Line to V<sub>CC</sub> And Line to Ground
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Low Forward Voltage and Reverse Recovery Characteristics
- Halogen Free. "Green" Device (Note 1)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 430°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS70L2	73	70V	70V

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

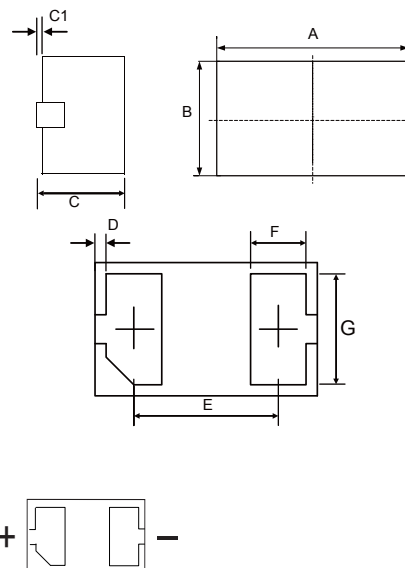
Forward Continuous Current	I <sub>F</sub>	70mA	
Peak Forward Surge Current	I <sub>FSM</sub>	100mA	(t<1s)
Power Dissipation	P <sub>D</sub>	200mW	
Reverse Breakdown Voltage	V <sub>(BR)</sub>	70V	I <sub>R</sub> = 10µA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.41V 1.0V	I <sub>F</sub> = 1mA* I <sub>F</sub> = 15mA*
Leakage Current	I <sub>R</sub>	10nA(Typ) 0.2µA(Max)	V <sub>R</sub> = 50V*
Typical Junction Capacitance	C <sub>J</sub>	2pF	V <sub>R</sub> = 0V, f = 1MHZ
Maximum Reverse Recovery Time	T <sub>RR</sub>	5ns	I <sub>R</sub> = I <sub>F</sub> = 10mA I <sub>RR</sub> = 0.1xI <sub>R</sub> R <sub>L</sub> = 100Ω

\*Pulse Test tp < 300µs

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

**Surface Mount  
Schottky Barrier  
Diode  
200 mWatt**

**DFN1006-2L**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.037	0.041	0.95	1.05	
B	0.022	0.026	0.55	0.65	
C	0.016	0.020	0.40	0.50	
C1	-----	0.002	-----	0.05	
D	0.001	0.003	0.02	0.08	
E	0.026BSC		0.65BSC		
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

**Curve Characteristics**

Fig. 1 - Forward Characteristics

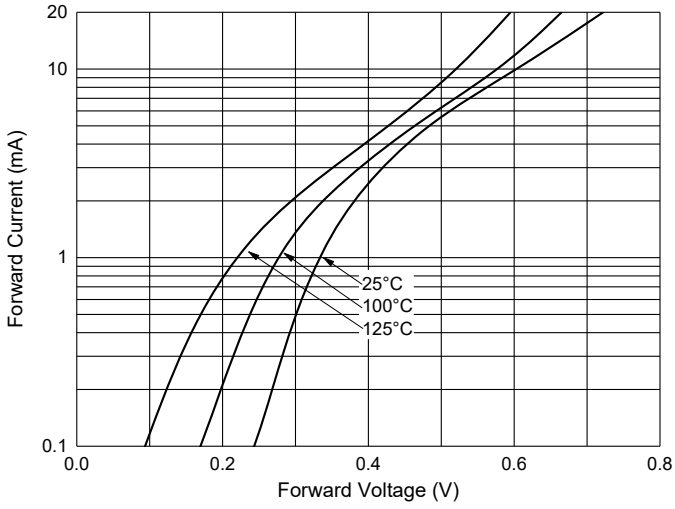


Fig. 2 - Reverse Characteristics

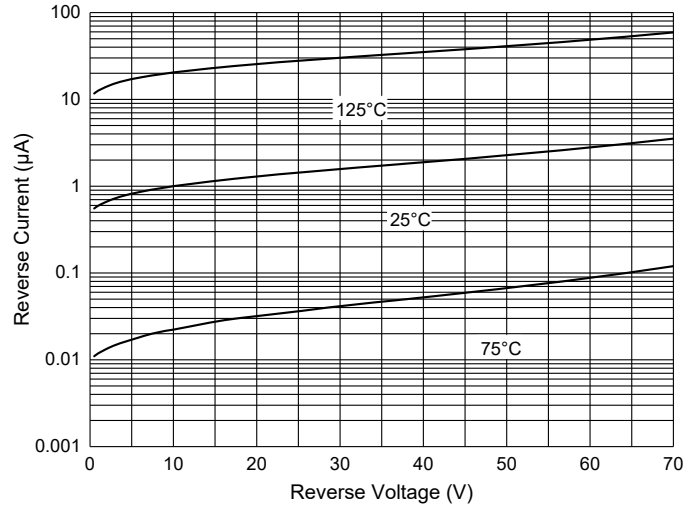


Fig. 3 - Capacitance Characteristics

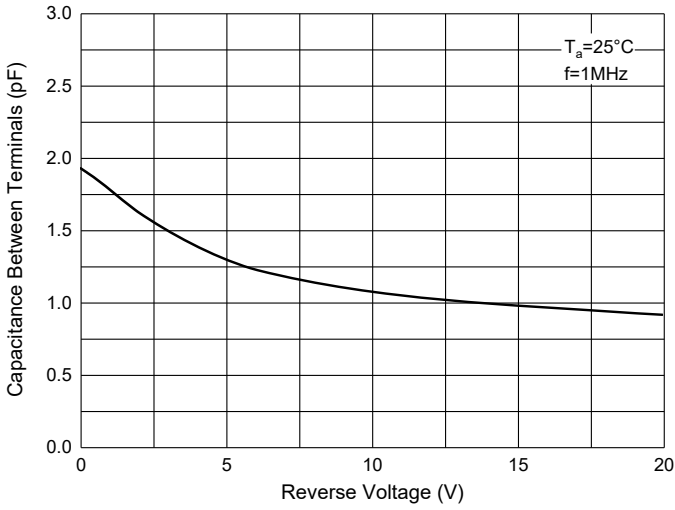


Fig. 4 - Power Derating Curve

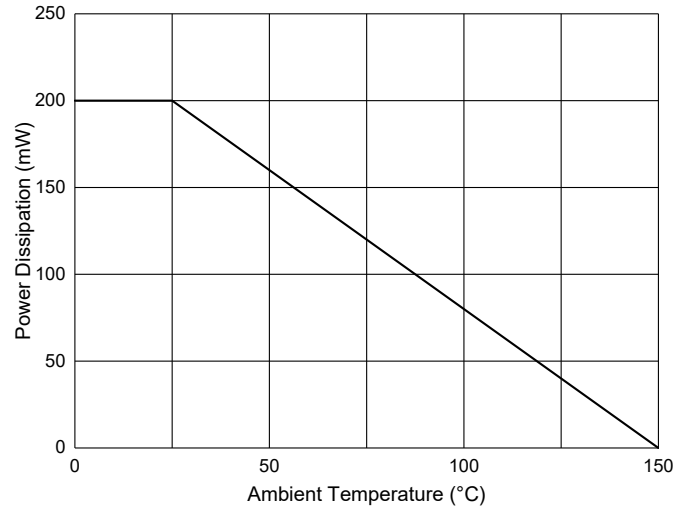
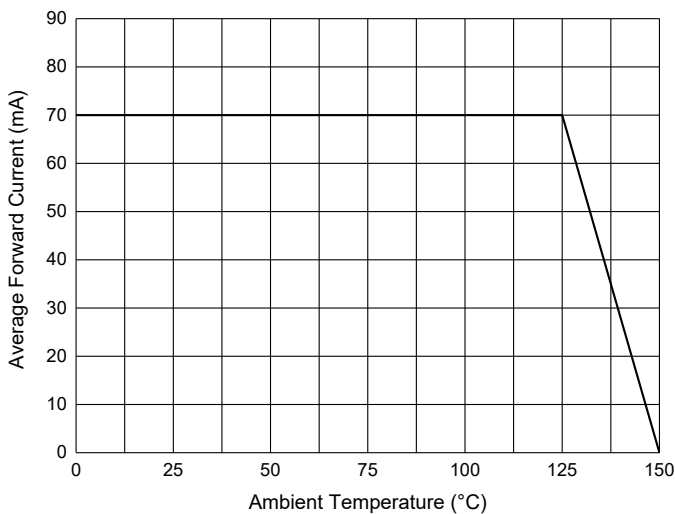


Fig. 5 - Current Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel;10Kpcs/Reel

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