

### Features

- Protects From Line to  $V_{CC}$  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:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Storage Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Thermal Resistance:  $430^{\circ}\text{C/W}$  Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS40L2	43	40V	40V

### Electrical Characteristics @ $25^{\circ}\text{C}$ Unless Otherwise Specified

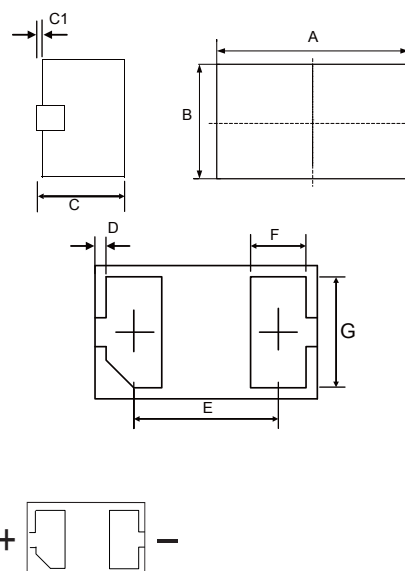
Forward Continuous Current	$I_F$	200mA	
Peak Forward Surge Current	$I_{FSM}$	600mA	( $t < 1\text{s}$ )
Power Dissipation	$P_D$	200mW	
Reverse Breakdown Voltage	$V_{(BR)}$	40V	$I_R = 10\mu\text{A}$
Maximum Instantaneous Forward Voltage	$V_F$	0.38V 1.0V	$I_F = 1\text{mA}^*$ $I_F = 40\text{mA}^*$
Leakage Current	$I_R$	10nA(Typ) 0.2 $\mu\text{A}$ (Max)	$V_R = 30\text{V}^*$
Typical Junction Capacitance	$C_J$	5pF	$V_R = 0\text{V}$ , $f = 1\text{MHz}$
Maximum Reverse Recovery Time	$t_{rr}$	5ns	$I_R = I_F = 10\text{mA}$ $I_{RR} = 0.1 \times I_R$ $R_L = 100\Omega$

\*Pulse Test  $t_p < 300\mu\text{s}$

Note: 1. Halogen free "Green" products are defined as those which contain  $<900\text{ppm}$  bromine,  $<900\text{ppm}$  chlorine ( $<1500\text{ppm}$  total Br + Cl) and  $<1000\text{ppm}$  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 - Typical Instantaneous Forward Characteristics

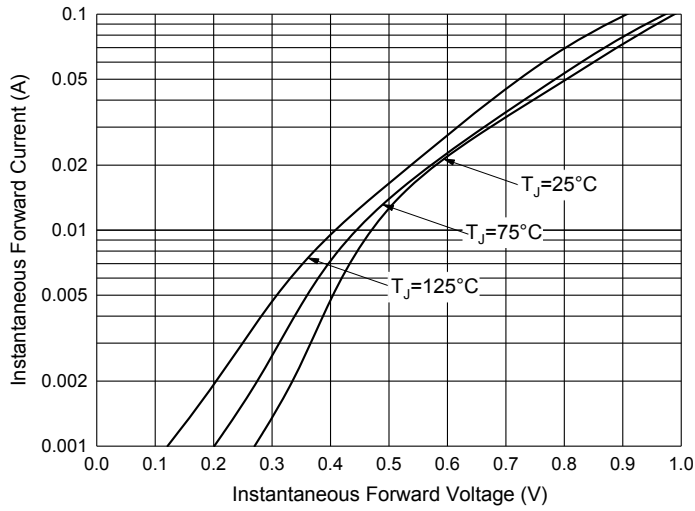


Fig. 2 - Typical Reverse Leakage Characteristics

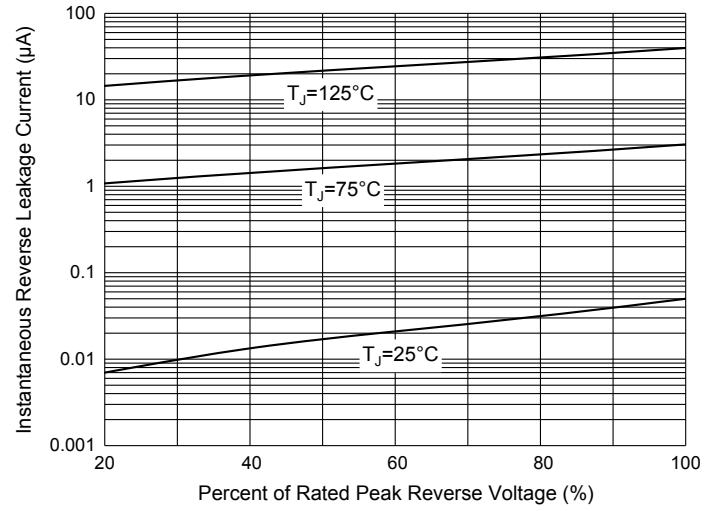


Fig. 3 - Capacitance Characteristics

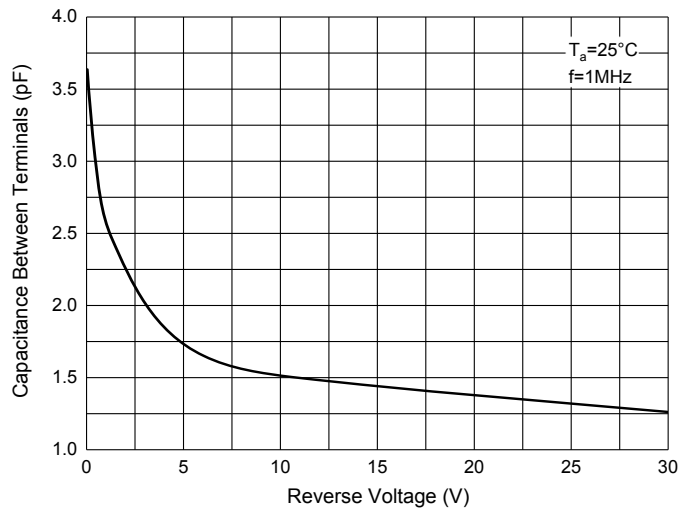
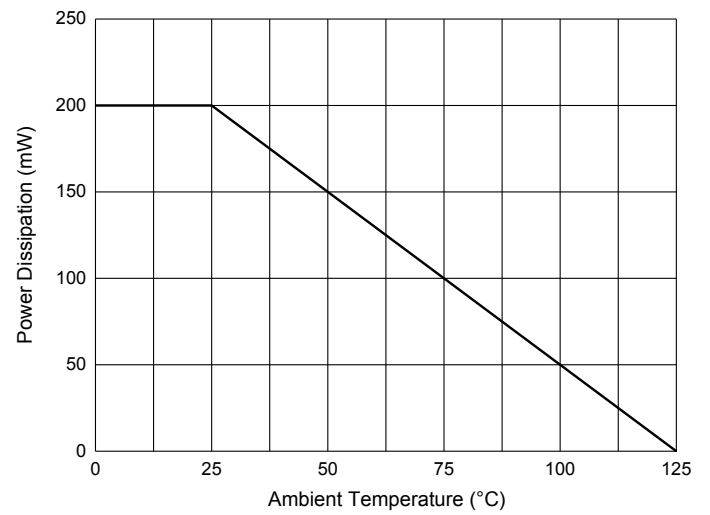


Fig. 4 - Power Derating Curve



## Ordering Information

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

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