

Features

- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS AWWA 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: 556°C/W Junction to Ambient

| MCC Part Number | Device Marking | | |
|--------------------|----------------|--|--|
| BAS116 | JV | | |

| Parameter | Symbol | Value |
|-------------------------------------|------------------|-------|
| Reverse Voltage | V_R | 75V |
| Forward DC Current | I _F | 200mA |
| Peak Forward Surge Current(t=8.3ms) | I _{FSM} | 2A |
| Power Dissipation | P_{D} | 225mW |

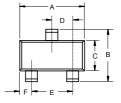
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

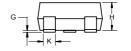
Internal Structure

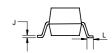


225mW Switching Diode



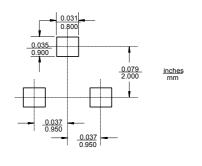






| DIMENSIONS | | | | | | |
|------------|--------|-------|------|------|------|--|
| DIM INCHES | | HES | MM | | NOTE | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.110 | 0.120 | 2.80 | 3.04 | | |
| В | 0.083 | 0.104 | 2.10 | 2.64 | | |
| С | 0.047 | 0.055 | 1.20 | 1.40 | | |
| D | 0.034 | 0.041 | 0.85 | 1.05 | | |
| E | 0.067 | 0.083 | 1.70 | 2.10 | | |
| F | 0.018 | 0.024 | 0.45 | 0.60 | | |
| G | 0.0004 | 0.006 | 0.01 | 0.15 | | |
| Н | 0.035 | 0.043 | 0.90 | 1.10 | | |
| J | 0.003 | 0.007 | 0.08 | 0.18 | | |
| K | 0.014 | 0.020 | 0.35 | 0.51 | | |
| L | 0.007 | 0.020 | 0.20 | 0.50 | | |

Suggested Solder Pad Layout





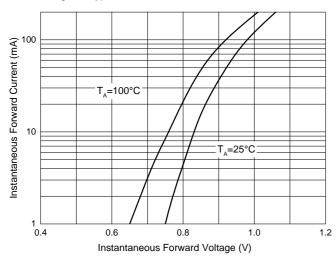
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|--------------------------------|-----------------|--|------|------|------|-------|
| Forward Voltage V _F | | I _F =1mA | | | 0.9 | V |
| | \ | I _F =10mA | | | 1 | V |
| | V _F | I _F =50mA | | | 1.1 | V |
| | | I _F =150mA | | | 1.25 | V |
| Reverse Current | I _R | V _R =75V | | | 5 | nA |
| Junction Capacitance | CJ | $V_R = 0V$, $f = 1MHz$ | | | 2 | pF |
| Reverse Recovery Time | t _{rr} | $I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$ | | | 3 | μs |



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics



0.8

T_A=100°C

Content (UA)

T_A=25°C

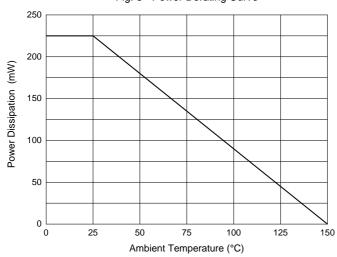
O.4

Reverse Voltage (V)

0.2

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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