



ZIBO MICRO COMMERCIAL
COMPONENTS CORP.



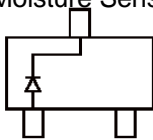
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BAS21T

150mW 250 Volt Switching Diode

Features

- Halogen free available upon request by adding suffix "-HF"
- Ultra-Small Surface Mount Package
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

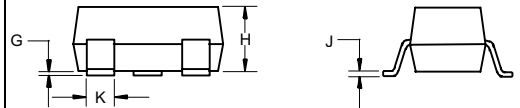
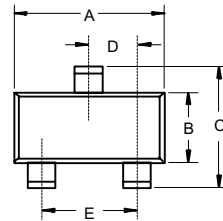


Marking : T3

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

SOT-523



Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-----------|--------------|---|
| Peak Repetitive Reverse Voltage | V_{RRM} | 250V | |
| Average Rectified Output Current | I_o | 200mA | |
| Power Dissipation | P_D | 150mW | |
| Peak Forward Surge Current @t=1.0us @t=1.0s | I_{FSM} | 2.5A 0.5A | |
| Maximum Instantaneous Forward Voltage | V_F | 1V 1.25V | IF=100mA IF=200mA |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 100nA | $V_R=250$ Volts |
| Typical Total Capacitance | C_T | 5pF | Measured at 1.0MHz, $V_R=0V$ |
| Reverse Recovery Time | T_{rr} | 50nS | IF = IR = 30mA, Irr = 0.1 x IR, RL = 100Ω |

| DIM | DIMENSIONS | | | | NOTE |
|-----|--------------|------|-------------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .059 | .067 | 1.50 | 1.70 | |
| B | .030 | .033 | 0.75 | 0.85 | |
| C | .057 | .069 | 1.45 | 1.75 | |
| D | .020 Nominal | | 0.50Nominal | | |
| E | .035 | .043 | 0.90 | 1.10 | |
| G | .000 | .004 | .000 | .100 | |
| H | .028 | .031 | .70 | 0.80 | |
| J | .004 | .008 | .100 | .200 | |
| K | .010 | .014 | .25 | .35 | |

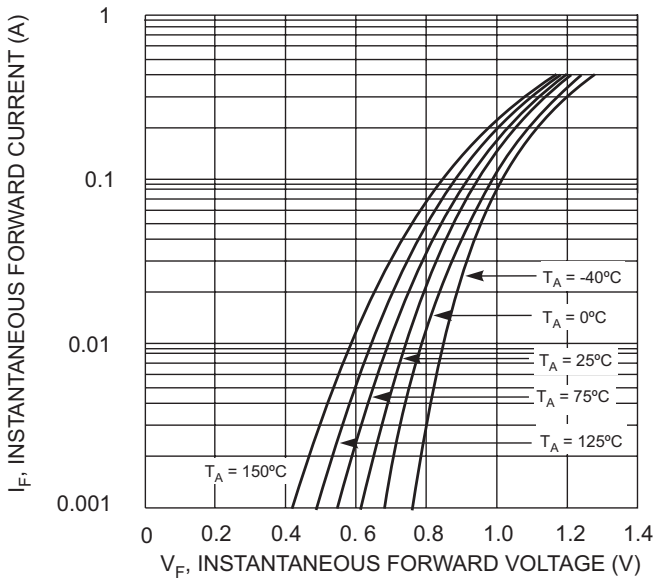


Fig. 1 Typical Forward Characteristics

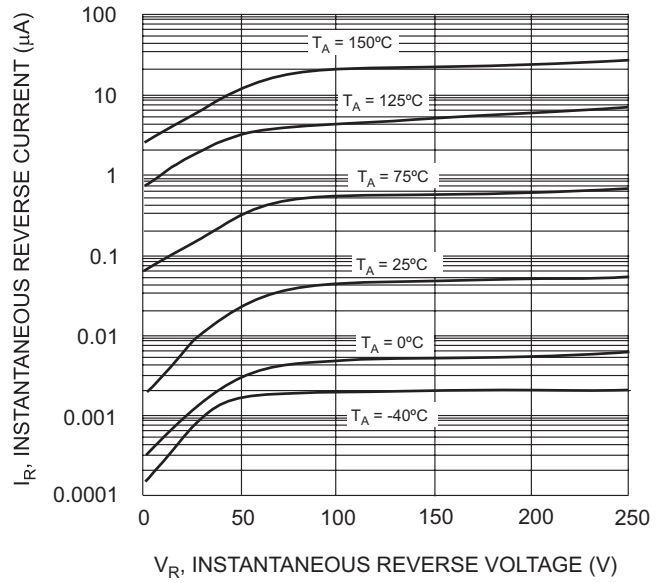


Fig. 2 Typical Reverse Characteristics

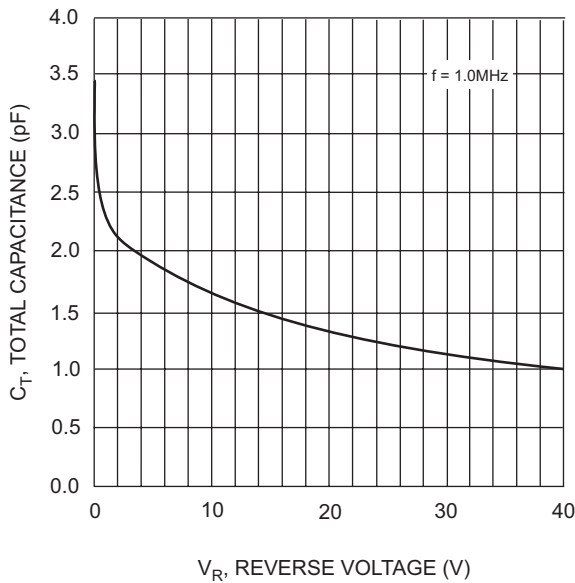


Fig. 3 Typical Capacitance vs. Reverse Voltage

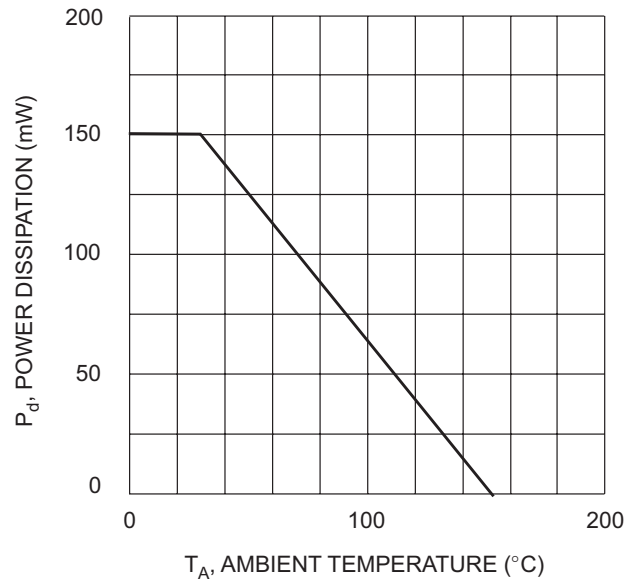


Fig. 4 Power Derating Curve, Total Package



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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****LIFE SUPPORT*****

ZBMCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of ZiBo Micro Commercial Components Corp.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuine parts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.