



**ZBMCC**

ZIBO MICRO COMMERCIAL  
COMPONENTS CORP.



ADD:ZhangLiu Road No.6  
Zhangdian Zibo Shandong  
P.C.:255000  
Tel:+86-533-3032000/3032005  
Fax:+86-533-3112884

**BAS40-04T**  
**BAS40-05T**  
**BAS40-06T**

### Features

- Pow Dissipation PD=150mW Tamb=25°C
- Forward Current I<sub>F</sub>=200mA
- Reverse Voltage V<sub>R</sub>=40V
- Halogen free available upon request by adding suffix "-HF"
- 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)

**150mW 40Volt**  
**Plastic-Encapsulate**  
**Diode**

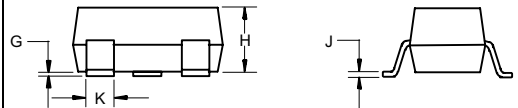
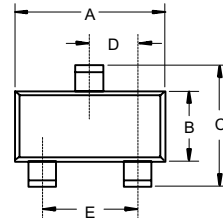
### Maximum Ratings

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

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

Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40V	I <sub>R</sub> =10μA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	380mV 1000mV	I <sub>FM</sub> = 1mA; I <sub>FM</sub> = 40mA;
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	200nA	V <sub>R</sub> =30Volts
Total Capacitance	C <sub>T</sub>	5pF	Measured at 1.0MHz, V <sub>R</sub> =0V
Reverse Recovery Time	T <sub>rr</sub>	5nS	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =1mA,R <sub>L</sub> =100Ω

### SOT-523



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	

# BAS40T/-04T/-05T/-06T

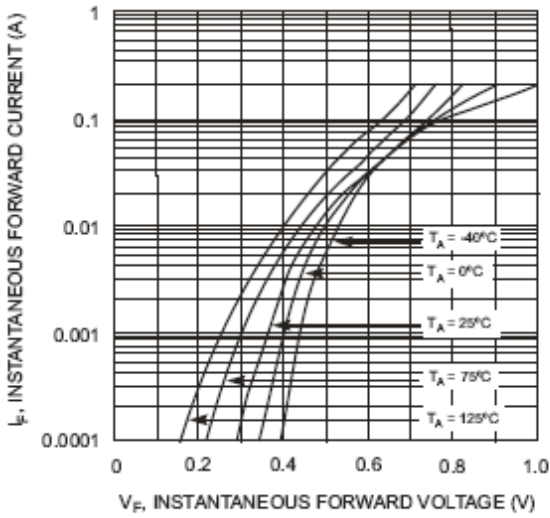


Fig. 1 Typical Forward Voltage

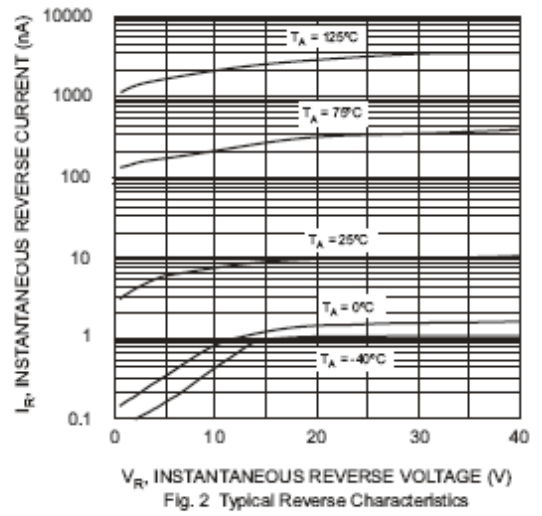


Fig. 2 Typical Reverse Characteristics

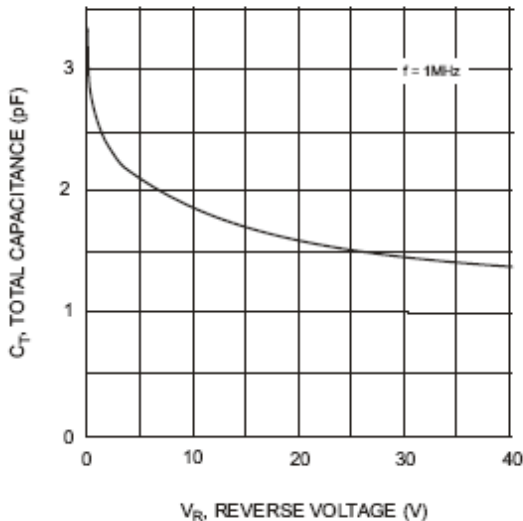


Fig. 3 Typical Capacitance

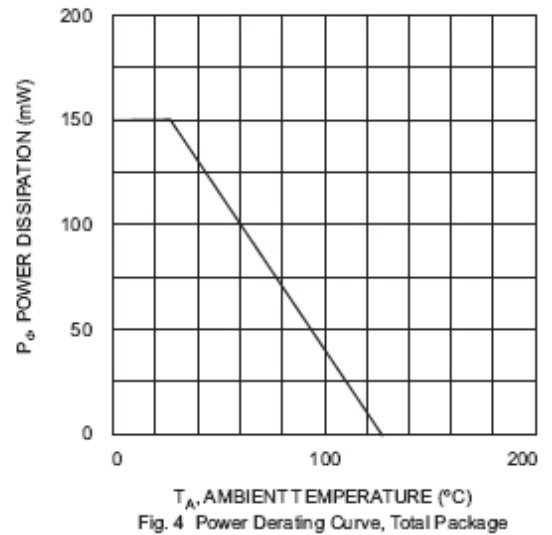
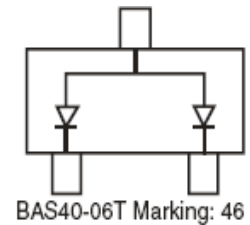
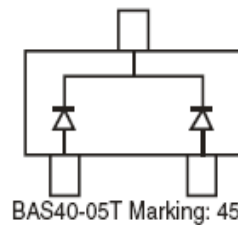
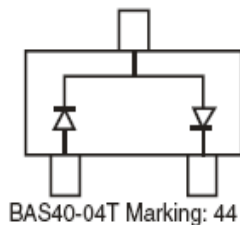
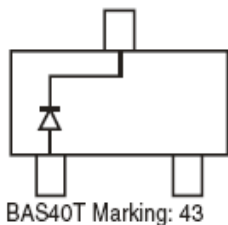


Fig. 4 Power Derating Curve, Total Package

## Marking:





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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.