



Micro Commercial Components



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 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

**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
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

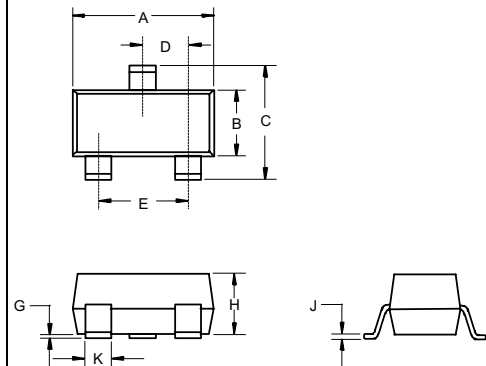
- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

## 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

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

## SOT-523



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	

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



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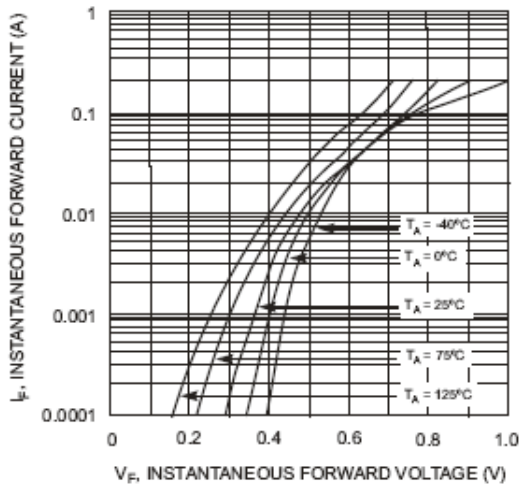


Fig. 1 Typical Forward Voltage

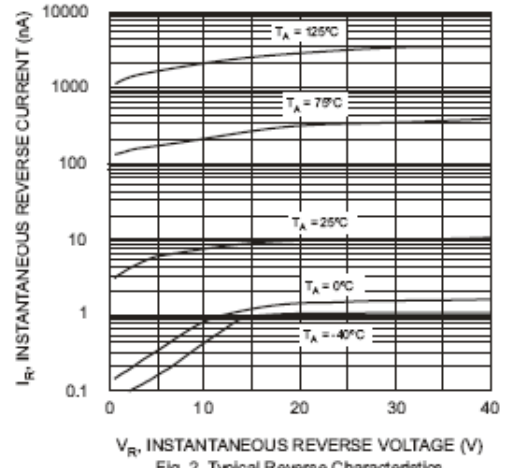


Fig. 2 Typical Reverse Characteristics

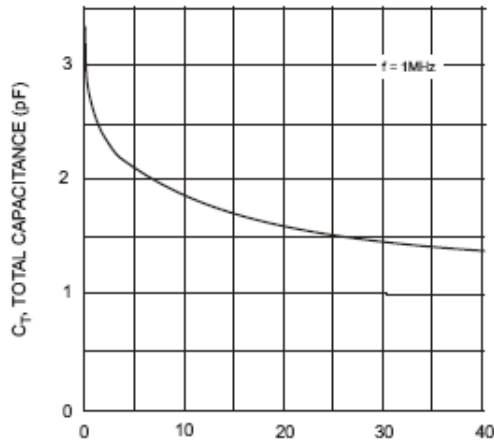


Fig. 3 Typical Capacitance

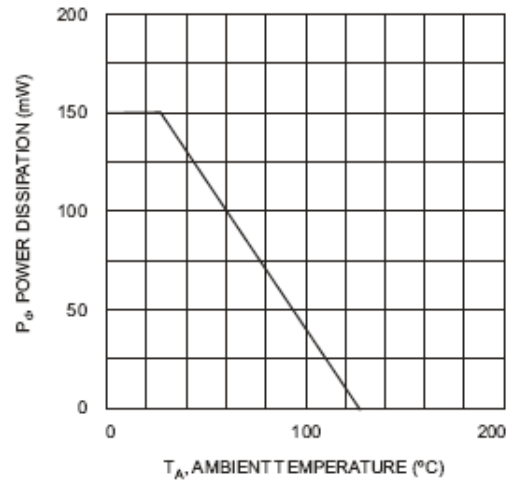
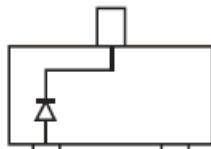
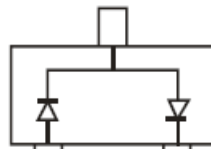


Fig. 4 Power Derating Curve, Total Package

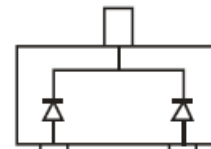
## Marking:



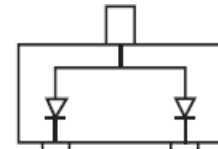
BAS40T Marking: 43



BAS40-04T Marking: 44



BAS40-05T Marking: 45



BAS40-06T Marking: 46



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### Ordering Information :

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

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