



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components  
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 Phone: (818) 701-4933  
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**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**

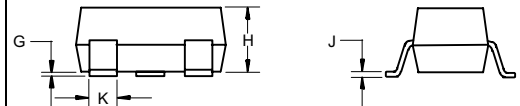
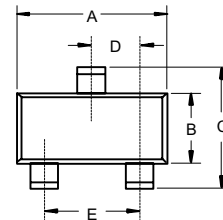
- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

**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**

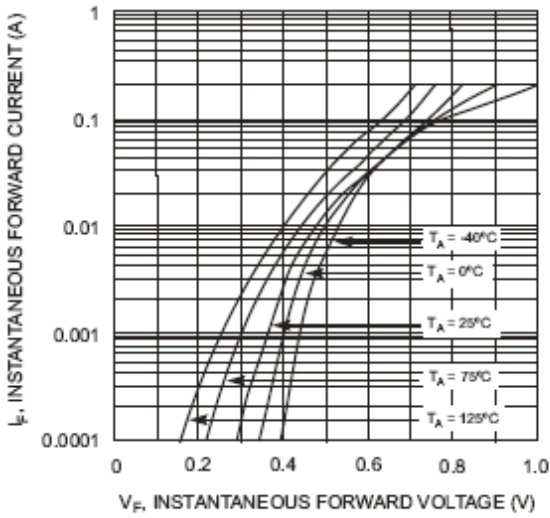


Fig. 1 Typical Forward Voltage

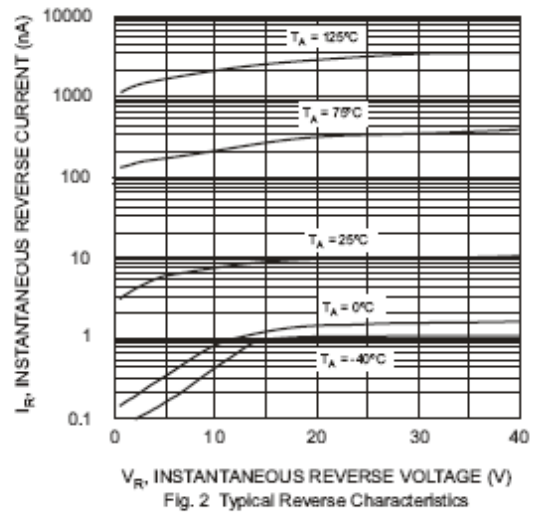


Fig. 2 Typical Reverse Characteristics

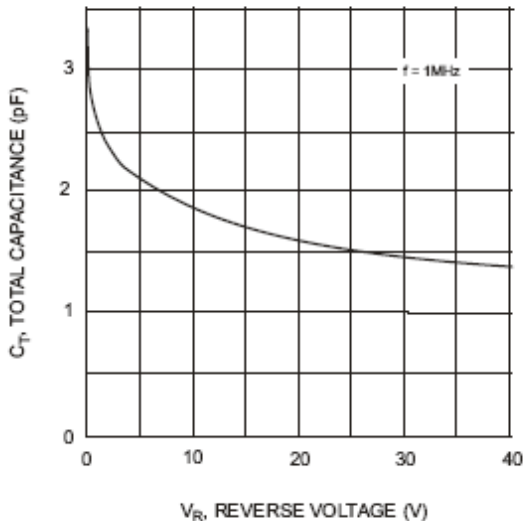


Fig. 3 Typical Capacitance

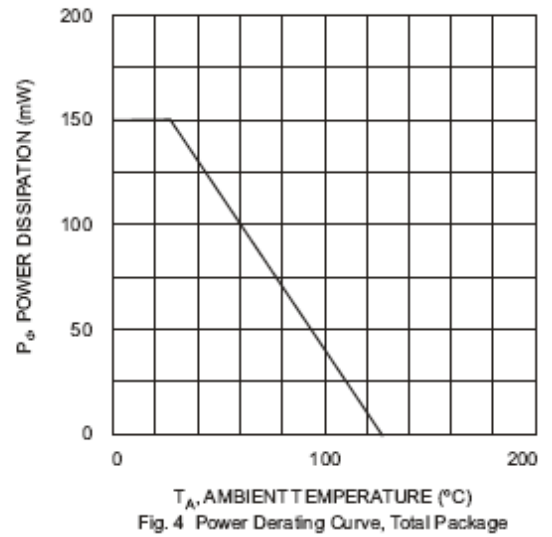
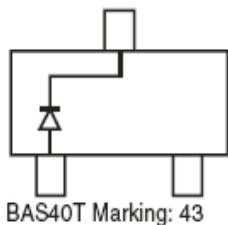
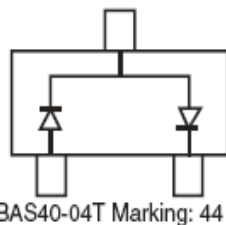


Fig. 4 Power Derating Curve, Total Package

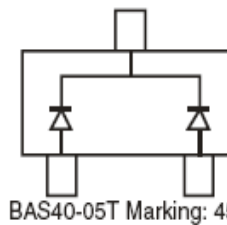
**Marking:**



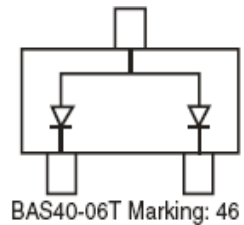
BAS40T Marking: 43



BAS40-04T Marking: 44



BAS40-05T Marking: 45



BAS40-06T Marking: 46



Micro Commercial Components

Ordering Information :

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

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