

M·C·C·

Micro Commercial Components

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BAS40WT

Features

- Pow Dissipation PD=200mW Tamb=25°C
- Collector Current $I_F=200\text{mA}$
- Collector-base Voltage $V_R=40\text{V}$
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

**200mW 40Volt
Plastic-Encapsulate
Diode**

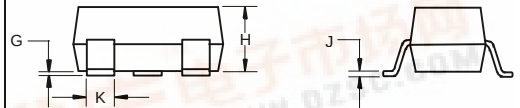
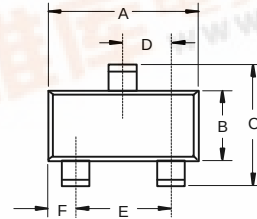
Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

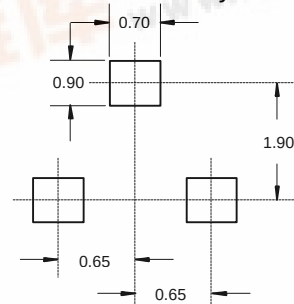
Reverse Breakdown Voltage	$V_{(BR)R}$	40V	$I_R=10\mu\text{A}$
Maximum Instantaneous Forward Voltage	V_F	380mV 1000mV	$I_{FM} = 1\text{mA};$ $I_{FM} = 40\text{mA};$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	200nA	$V_R=30\text{Volts}$
Typical Junction Capacitance	C_D	5pF	Measured at 1.0MHz, $V_R=0\text{V}$
Reverse Recovery Time	T_{rr}	5nS	$I_F=10\text{mA}$ through $I_R=10\text{mA}$ to $I_R=1\text{mA}$

SOT-323



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.012	.016	.30	.40	

**Suggested Solder
Pad Layout**



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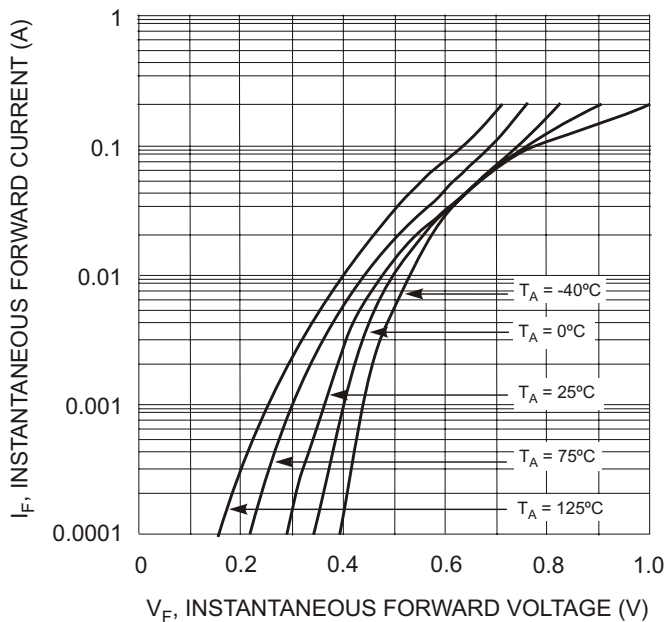


Fig. 1 Typical Forward Voltage

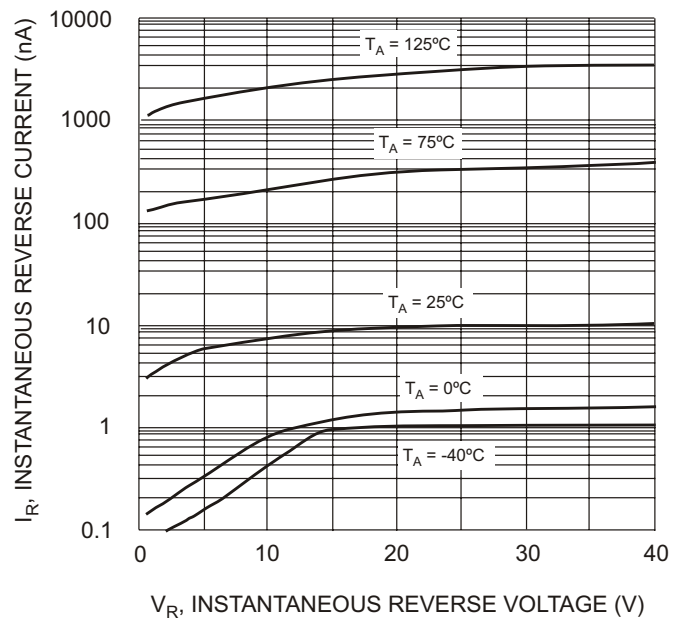


Fig. 2 Typical Reverse Characteristics

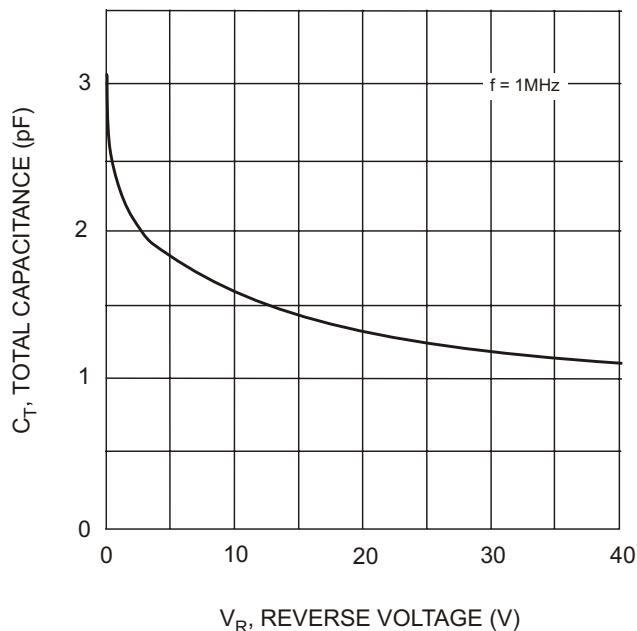
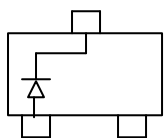
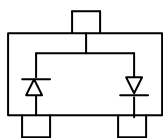


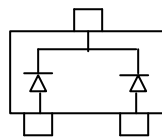
Fig. 3 Typical Capacitance



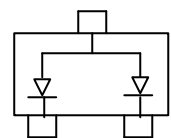
BAS40WT Marking:43/K43



BAS40WT-04 Marking:44/K44



BAS40WT-05 Marking:45/K45



BAS40WT-06 Marking:46/K46



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