



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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SOT23 SILICON PLANAR VARIABLE CAPACITANCE DIODE

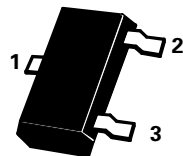
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BBY40

PIN CONFIGURATION



PARTMARKING DETAIL
BBY40 – S2



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation at $T_{amb}=25^{\circ}\text{C}$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$ unless otherwise stated).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Reverse Breakdown Voltage	V_{BR}	28.0			V	$I_R = 10\mu\text{A}$
Reverse current	I_R			10 1.0	nA μA	$V_R = 28\text{V}$ $V_R = 28\text{V}, T_{amb} = 60^{\circ}\text{C}$

TUNING CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Diode Capacitance	C_d	26.0 4.3		32.0 6.0	pF pF	$V_R = 3\text{V}, f=1\text{MHz}$ $V_R = 25\text{V}, f=1\text{MHz}$
Capacitance Ratio	C_d / C_d	5.0		6.5		$V_R = 3\text{V}/25\text{V}, f=1\text{MHz}$
Series Resistance	r_d		0.4	0.6	Ω	$f=200\text{MHz}$ at the value of V_R at which $C_d=25\text{pF}$

Spice parameter data is available upon request for this device

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TYPICAL CHARACTERISTICS

