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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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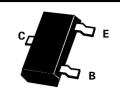


SOT23 NPN SILICON PLANAR RF TRANSISTORS

ISSUE 4 – MARCH 2001

PARTMARKING DETAILS — BFS17L - E1L BFS17H - E1H

BFS17L BFS17H



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V _{CBO}	25	V
Collector-Emitter Voltage	V _{CEO}	15	V
Emitter-Base Voltage	V _{EBO}	2.5	V
Peak Pulse Current	I _{CM}	50	mA
Continuous Collector Current	I _C	25	mA
Power Dissipation at T _{amb} =25°C	P _{tot}	330	mW
Operating and Storage Temperature Range	T _j :T _{stg}	-55 to +150	°C

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector Cut-Off Current	I _{CBO}			10 10	nA μA	$V_{CB}=10V, I_{E}=0$ $V_{CB}=10V, I_{E}=0,$ $T_{amb}=100^{\circ}C$
Static Forward Current Transfer Ratio	h _{FE}					
BFS17L		25		100		I _C =2.0mA, V _{CE} =1.0V
BFS17H		70		200		I _C =2.0mA, V _{CE} =1.0V
		20		125		I _C =25mA, V _{CE} =1.0V
Transition Frequency	f _T		1.0 1.3		GHz GHz	I _C =2.0mA, V _{CE} =5.0V f=500MHz I _C =25mA, V _{CE} =5.0V f=500MHz
Feedback Capacitance	-C _{re}		0.85		pF	I _C =2.0mA, V _{CE} =5V, f=1MHz
Output Capacitance	C _{obo}			1.5	pF	V _{CB} =10V, f=1MHz
Input Capacitance	C _{ibo}			2.0	pF	V _{EB} =0.5V, f=1MHz
Noise Figure	N		4.5		dB	I _C =2.0mA, V _{CE} =5.0V R _S =50Ω, f=500MHz
Intermodulation Distortion	d _{im}		-45		dB	$\begin{array}{l} I_{C}{=}10mA, \ V_{CE}{=}6.0V \\ R_{L}{=}37.5\Omega, T_{amb}{=}25^{\circ}C \\ V_{o}{=}100mV \ at \ f_{p}{=}183MHz \\ V_{o}{=}100mV \ at \ f_{q}{=}200MHz \\ measured \ at \ f_{(2q-p)}{=}217MHz \end{array}$

Spice parameter data is available upon request for this device



BFS17L BFS17H

TYPICAL CHARACTERISTICS

