



An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

PNP SILICON PLANAR EPITAXIAL TRANSISTORS



BFX87 BFX88 TO-39

ABSOLUTE MAXIMUM RATINGS

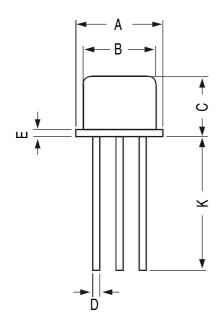
DESCRIPTION	SYMBOL	BFX87	BFX88	UNIT
Collector -Base Voltage	VCBO	50	40	V
Collector -Emitter Voltage	VCEO	50	40	V
Collector Current (DC)	IC	600		mA
Peak value	ICM	600		mA
Emitter Current	IEM	600		mA
Power Dissipation up toTamb=25 degC	Ptot	600		mW
Operating And Storage Junction	Tj, Tstg	-65 to +200		deg C
Temperature Range				
THERMAL RESISTANCE				
Junction to Ambient	Rth(j-a)	300		K/W

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)

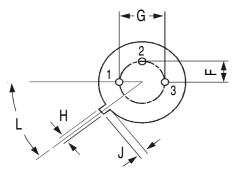
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector-Cut off Current	ICBO	BFX87				
		VCB=40V, IE=0	-	-	50	nA
		VCB=50V, IE=0	-	-	500	nA
		Tj=100 deg C				
		VCB=40V, IE=0	-	-	2.0	uA
		BFX88				
		VCB=30V, IE=0	-	-	50	nA
		VCB=40V, IE=0	-	-	500	nA
		Tj=100 deg C				
		VCB=30V, IE=0	-	-	2.0	uA
Emitter-Cut off Current	IEBO	VEB=3V, IC=0	-	-	100	nA
		VEB=4V, IC=0	-	-	500	nA
DC Current Gain	hFE	IC=1mA,VCE=10V	40	-	-	
		IC=10mA,VCE=10V	40	-	-	
		IC=150mA,VCE=10V	40	-	-	
		IC=500mA,VCE=10V	25	-	-	

DESCRIPTION	
Dynamic Characteristics	UNIT
IC=150mA,IB=15mA	V
Dynamic Characteristics	V
Collector Capacitance Cc VCB=10V, IE=0	V
F=1MHz	
F=1MHz	pF
Switching Time Turn on time ton - - 60	pF
Turn on time ton - - 60 Turn off time toff - - 150 h-parameters Measured @ IC=10mA, VCE=10V, f=1kHz	MHz
Turn off time toff 150 h-parameters Measured @ IC=10mA, VCE=10V, f=1kHz	
h-parameters Measured @ IC=10mA, VCE=10V, f=1kHz	ns
Measured @ IC=10mA, VCE=10V, f=1kHz	ns
f=1kHz	
· · · · · · ·	
Input impedance hie - 600	
	ohms
Voltage Feedback Ratio hre - 1.5	x10-4
Forward Current Transfer Ratio hfe - 155	
Output Admittance hoe - 104	umho

TO-39 Metal Can Package



	DIM	MIN	MAX
	Α	8.50	9.39
	В	7.74	8.50
	С	6.09	6.60
	D	0.40	0.53
L	Е	_	0.88
ı mr	F	2.41	2.66
ıre iı	G	4.82	5.33
ns e	Н	0.71	0.86
nsio	J	0.73	1.02
All dimensions are in mm	K	12.70	_
All d	L	42 DEG	48 DEG





PIN CONFIGURATION

- 1. EMITTER
- 2. BASE
- 3. COLLECTOR

Packing Detail

PACKAGE	STANDA	ARD PACK	INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-39	500 pcs/polybag	540 gm/500 pcs	3" x 7.5" x 7.5"	20.0K	17" x 15" x 13.5"	32.0K	40 kgs

Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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