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Continental Device India Limited An IS/ISO 9002 and IECQ Certified Manufacturer



NPN SILICON PLANAR RF TRANSISTOR



BF115

TO-72 Metal Can Package

ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V _{CBO}	50	V
Collector Emitter Voltage	V _{CEO}	30	- CONV
Emitter Base Voltage	V_{EBO}	5	V V
Collector Current	Ι _C	30	mA
Base Current Continuous	IB	1	mA
Total Power Dissipation @ Ta=45%	C PD	145	mW
Operating & Storage Junction	T _j , T _{stg}	-55 to +175	°C
Temperature Range			
THERMAL RESISTANCE			
Junction to Ambient	R _{th(j-a)}	900	°C/W

ELECTRICAL CHARACTERISTICS (Ta=25° C unless specified otherwise)

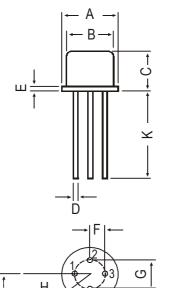
	7.5000			VALUE			
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT	
Collector Emitter Breakdown Voltage	BV _{CEO} *	I _C =2mA, I _B =0	30			V	
Collector Base Breakdown Voltage		I _C =10μA, I _E =0	50			V	
Emitter Base Breakdown Voltage	BV_{EBO}	$I_{\rm E}$ =10µA, $I_{\rm C}$ =0	5			V	
Collector Cut off Current	I _{CBO}	V _{CB} =20V, I _E =0, Ta=175°C		0.5		μA	
DC Current Gain	h_{FE}	I _C =1mA,V _{CE} =10V	48		167		
		I _C =20mA*,V _{CE=} 2V	40				
Base Emitter On Voltage	V _{BE(on)}	I _C =1mA,V _{CE} =10V	600	700	740	mV	
		I _C =20mA,V _{CE=} 2V*			1000	mV	
DYNAMIC CHARACTERISTICS Transition Frequency	f _T	I _C =1.0mA, V _{CE} =10V, f=100MHz		230		MHz	
Feedback Capacitance	C _{re}	V _{CB} =10V,I _C =1mA,f=0.45MHz		0.65	0.8	pF	
Noise Figure	NF	V_{CE} =10V, I _C =1mA, Rg=300K Ω ,					
89		f=200KHz		1.5		dB	
ガーアDF の Width <200いら Duty		f=1MHz		1.2		dB	

Pulse Test: pulse Width <u><</u>300µS, Duty Cycle<u><</u>2%

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PIN CONFIGURATION

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

	DIM	MIN.	MAX.
All dimensions in mm.	А	5.24	5.84
	В	4.52	4.95
	С	4.31	5.33
	D	0.40	0.53
	Е		0.76
	F	1.14	1.39
	G	2.28	2.97
	Н	0.91	1.17
	J	0.71	1.22
	K	12.70	_
Alld	L	12 DEG	48 DEG

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-72	1 K/Polybag	325 gm/1K pcs	3" x 7.5" x 7.5"	5K	17" x 15" x 13.5"	80K	32 kgs

Notes

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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 in the Data Sheet and 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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