

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



NPN SILICON PLANAR TRANSISTOR

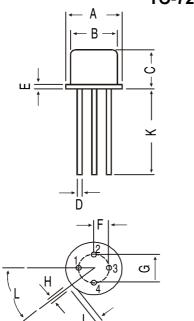


APPLICATIONS:

Telecommunications, Wide Band UHF Amplifier & Radio Communications.

ABSOLUTE MAXIMUM RATINGS								
DESCRIPTION	SYMBOL	VALUE			UNIT			
Collector -Base Voltage	VCBO	30				V		
Collector -Emitter Voltage(RBE<50 ohms)	VCER	R 30				V		
Collector -Emitter Voltage	VCEO	EO 15				V		
Emitter Base Voltage	VEBO	/EBO 2.5				V		
Collector Current	IC	25				mA		
Collector Peak Current (f >1MHz)	ICM	50				mA		
Power Dissipation @ Tamb=25 deg C	Ptot	200				mW		
Operating And Storage Junction	Tj, Tstg	Tstg -65 to +200				deg C		
Temperature Range								
Thermal Resistance								
Junction to Case	Rth (j-c)	580				deg C/W		
Junction to Ambient	Rth (j-a)	880				deg C/W		
ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)								
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT		
Collector Cut off Current	ICBO	VCB=15V, IE=0	-	-	10	nA		
Collector -Emitter Knee Voltage	VCEK*	IC=20mA	-	-	0.75	V		
DC Current Gain	hFE	IC=2mA, VCE=1V	25	-	150			
DYNAMIC CHARACTERISTICS		IC=25mA, VCE=1V	20		125			
Transition Frequency	ft	IC=2mA,VCE=5V,f=200MHz	750	-	-	MHz		
		IC=25mA,VCE=5V,f=200MHz	750		-	MHz		
Collector Base Capacitance	Ccbo(1)	VCB=10V, IE=0, f=1MHz	-	-	1.5	pF		
Reverse Capacitance	Cre(2)	IC=2mA, VCE=5V, f=1MHz	-	-	0.8	pF		
Noise Figure	NF(2)	IC=2mA,VCE=5V,f=100kHz,						
		RG=optimized	-		4.0	dB		
*IB=Value for Which IC=22mA @ VCE=1V								
(1) Shield Lead Not Grounded								
(2) Shield Lead Grounded								

TO-72 Metal Can Package





DIM	MIN.	MAX.		
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	_		
L	12 DEG	48 DEG		

PIN CONFIGURATION

All dimensions in mm

1. EMITTER

2. BASE

3. COLLECTOR

4. CASE

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"	5.0K	17" x 15" x 13.5"	80.0K	32 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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Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-579 6150 Fax + 91-11-579 9569, 579 5290

e-mail sales@cdil.com www.cdil.com

Data Sheet