

Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company



PNP SILICON PLANAR EXPITAXIAL TRANSISTOR.



2N4037

TO-39 Metal Can Package

MEDIUM POWER AMPLIFIER AND SWITCHING APPLICATIONS.

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

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Emitter Voltage	V _{CEO(sus)} *	40	V
Collector Base Voltage	V_{CBO}	60	V
Emitter Base Voltage	V_{EBO}	7.0	V
Collector Current Continuous	I _C	1.0	Α
Base Current	I _B	0.5	Α
Continuous Power Dissipation	P_D	1.0	W
@ or Below Ta=25°C			
Linear Derating Dissipation		5.72	mW/ºC
Operating And Storage Junction	T_{j},T_{stg}	-65 to +200	°C
Temperature Range			

^{*} Must not be tested on a curve tracer.

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

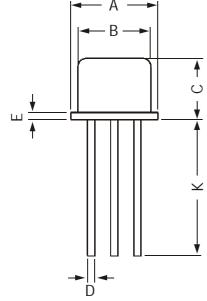
DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNITS
Collector Emitter susstaining Voltage	$V_{(BR)CEO(sus)}$	$I_C=100$ mA, $I_B=0$	>40	V
Collector Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 100 \mu A, I_E = 0$	>60	V
Collector Cut off Current	I_{CBO}	V_{CB} =60V, I_{E} =0	<250	nA
Emitter Cut off Current	I_{EBO}	V_{BE} =5V, I_{C} =0	<20	nA
DC Current Gain	hFE	$I_C=1mA, V_{CE}=10V$	>15	
		$I_C=150$ mA, $V_{CE}=10$ V	50-250	
Collector Emitter (sat) Voltage	$V_{CE(Sat)}$	$I_C=150$ mA, $I_B=15$ mA	<1.4	V
Base Emitter Voltage	$V_{BE(0n)}$	$I_C=150$ mA, $V_{CE}=10$ V	<1.5	V

DYNAMIC CHARACTERISTICS

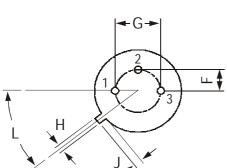
DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNITS
Collector Base Capacitance	C_cb	V _{CB} = 10V, f=20MHz	<30	pF
Current Gain -High Frequency	h _{fe}	$I_C = 50 \text{mA}, V_{CE} = 10 \text{V},$	3.0-1.0	
		f=20MHz		

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DIM	MIN	MAX
Α	8.50	9.39
В	7.74	8.50
С	6.09	6.60
D	0.40	0.53
Ε	_	0.88
F	2.41	2.66
G	4.82	5.33
Н	0.71	0.86
J	0.73	1.02
K	12.70	_
L	42 DEG	48 DEG





All dimensions are in mm

PIN CONFIGURATION

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

Packing Detail

PACKAGE	STANDARD 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"	20K	17" x 15" x 13.5"	32K	40 kgs

Notes 2N4037

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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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Continental Device India Limited
C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290, 5141 1119
email@cdil.com www.cdilsemi.com

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