

Continental Device India Limited

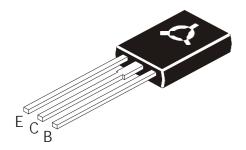
An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company





NPN SILICON EPITAXIAL TRANSISTOR

2N4923 TO-126



General Purpose Power Transistor

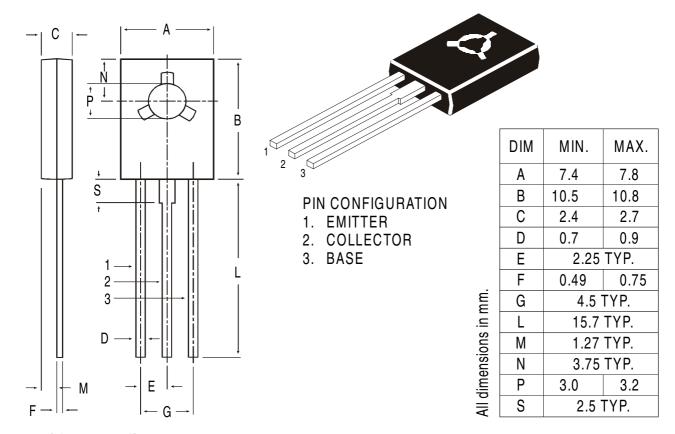
ABSOLUTE MAXIMUM RATINGS (Ta=25 deg C)

DESCRIPTION	VALUE		UNIT	
Collector -Base Voltage	VCBO	80	V	
Collector -Emitter Voltage	VCEO	80	V	
Emitter Base Voltage	VEBO	5.0	V	
Collector Current Continuous	IC	3.0	Α	
Base Current	IB	1.0	Α	
Power Dissipation @ Tc=25 deg C	PD	30	W	
Derate Above 25 deg C		0.24	W/deg C	
Operating And Storage Junction	Tj, Tstg	-65 to +150	deg C	
Temperature Range			_	
Lead Temperature for Soldering 1/16"	TL	260	deg C	
from Body for 10 Seconds.			_	
Thermal Resistance				
Junction to Case	Rth (j-c)	4.16	deg C/W	

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector -Emitter Sustaining Voltage	VCEO(sus)	IC=100mA, IB=0	80	-	-	V
Collector Cut off Current	ICEO	VCE=40V, IB=0	-	-	0.5	mΑ
	ICBO VCB=80V, IE=0		-	-	0.1	mΑ
	ICEX	VCB=80V,VEB(0ff)=1.5V Tc=125 deg C	-	-	0.1	mA
		VCB=80V,VEB(0ff)=1.5V	-	-	0.5	mΑ
Emitter Cut off Current	IEBO	VEB=5V, IC=0	-	-	1.0	mΑ
DC Current Gain	hFE *	IC=50mA,VCE=1V	40	-	-	-
		IC=500mA,VCE=1V	30		150	
		IC=1A,VCE=1V	10		-	-
Collector Emitter Saturation Voltage	VCE(sat)*	IC=1A, IB=0.1A	-		0.6	V
Base Emitter Saturation Voltage	VBE(sat)*	IC=1A, IB=0.1A	-		1.3	V
Base Emitter on Voltage	VBE(on) *	IC=1A,VCE=1V	-		1.3	V
DYNAMIC CHARACTERISTICS						
Transistors frequency	ft	IC=250mA,VCE=10V,f=1MHz	3.0	-	-	MHz
Output Capacitance	Cob	VCB=10V, IE=0, f=100kHz	-	-	100	pF
Small Signal Current Gain	hfe	IC=250mA,VCE=10V,f=1kHz	25	-	-	

TO-126 (SOT-32) Plastic Package



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-126	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2.0K	17" x 15" x 13.5"	32.0K	31 kgs

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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



CDIL is a registered Trademark of

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