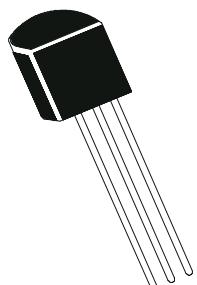


PNP EPITAXIAL PLANAR SILICON TRANSISTOR

CD1585BC
(9AW)
TO-92
BCE



Marking : CD
1585
BC

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

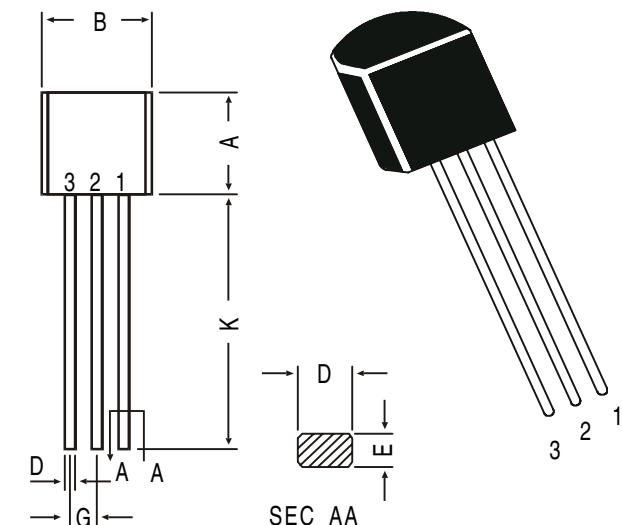
DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	BVCBO	20	V
Collector Emitter Voltage	BVCEO	20	V
Emitter Base Voltage	BVEBO	6.0	V
Collector Current	IC	2.0	A
Collector Current Peak	ICP*	5.0	A
Collector Power Dissipation	PC	0.4	W
Operating And Storage Junction	T _j , T _{stg}	-55 to +150	deg C
Temperature Range			

*Single Pulse Pw=10ms

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Base Voltage	VCBO	IC=50uA, IE=0	20	-	-	V
Collector Emitter Voltage	VCEO	IC=1mA, IB=0	20	-	-	V
Emitter Base Voltage	VEBO	IE=50uA, IC=0	6	-	-	V
Collector Cut off Current	ICBO	VCB=20V, IE=0	-	-	0.1	uA
	ICEO	VCE=20V, IB=0			1	uA
Emitter Cut off Current	IEBO	VEB=5V, IC=0	-	-	0.1	uA
DC Current Gain	hFE	VCE=2V, IC=0.1A	250	-	500	
		VCE=2V, IC=2A	155	-	-	
Collector Emitter Saturation Voltage	VCE(Sat)	IC=2A, IB=0.1A	-	-	1	V
Dynamic Characteristics						
Transition Frequency	f _t	VCE=2V, IC=0.5A, f=100MHz	-	150	-	MHz
Collector Output Capacitance	C _{ob}	VCB=10V, IE=0 f=1MHz	-	35	-	pF

TO-92 Plastic Package

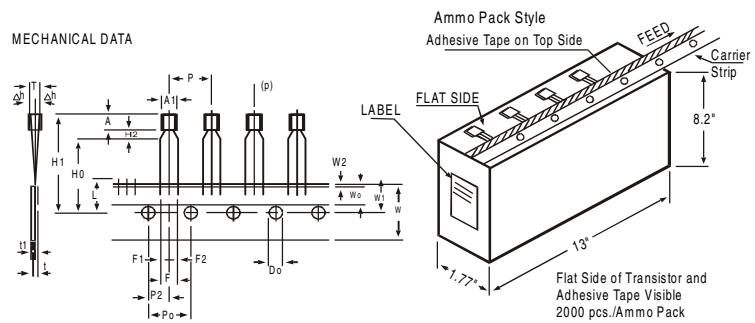


PIN CONFIGURATION
 1. BASE
 2. COLLECTOR
 3. Emitter

All dimensions in mm.

DIM	MIN.	MAX.
A	4.32	5.33
B	4.45	5.20
C	3.18	4.19
D	0.41	0.55
E	0.35	0.50
F	5 DEG	
G	1.14	1.40
H	1.14	1.53
K	12.70	—

TO-92 Transistors on Tape and Ammo Pack



All dimensions in mm unless specified otherwise

ITEM	SYMBOL	SPECIFICATION				REMARKS
		MIN.	NOM.	MAX.	TOL.	
BODY WIDTH	A1	4.0		4.8		
BODY HEIGHT	A	4.8		5.2		
BODY THICKNESS	T	3.9		4.2		
PITCH OF COMPONENT	P					
FEED HOLE PITCH	P ₀		12.7	12.7	±0.3	CUMULATIVE PITCH ERROR 1.0 mm/20 PITCH
FEED HOLE CENTRE TO COMPONENT CENTRE	P ₂		6.35		±0.4	TO BE MEASURED AT BOTTOM OF CLINCH
DISTANCE BETWEEN OUTER LEADS	F	5.08			±0.6	
COMPONENT ALIGNMENT	△h	0		1	-0.2	AT TOP OF BODY
TAPE WIDTH	W	18			±0.5	
HOLD-DOWN TAPE WIDTH	W ₀	6			±0.2	
HOLE POSITION	W ₁	9			±0.7	
HOLD-DOWN TAPE POSITION	W ₂	0.5			±0.2	
LEAD WIRE CLINCH HEIGHT	H ₀	16			±0.5	
COMPONENT HEIGHT	H ₁		23.25			
LENGTH OF SNIPPED LEADS	L		11.0			
FEED HOLE DIAMETER	D ₀	4			±0.2	
TOTAL TAPE THICKNESS	t		1.2			t1 0.3 - 0.6
LEAD - TO - LEAD DISTANCE	F ₁	2.54			±0.4	
CLINCH HEIGHT	H ₂		3		-0.1	
PULL - OUT FORCE	(P)	6N				

NOTES

1. MAXIMUM ALIGNMENT DEVIATION BETWEEN LEADS NOT TO BE GREATER THAN 0.2 mm.
2. MAXIMUM NON-CUMULATIVE VARIATION BETWEEN TAPE FEED HOLES SHALL NOT EXCEED 1 mm IN 20 PITCHES.
3. HOLDDOWN TAPE NOT TO EXCEED BEYOND THE EDGE(S) OF CARRIER TAPE AND THERE SHALL BE NO EXPOSURE OF ADHESIVE.
4. NO MORE THAN 3 CONSECUTIVE MISSING COMPONENTS ARE PERMITTED.
5. A TAPE TRAILER, HAVING AT LEAST THREE FEED HOLES ARE REQUIRED AFTER THE LAST COMPONENT.
6. SPLICES SHALL NOT INTERFERE WITH THE SPROCKET FEED HOLES.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-92 Bulk	1K/polybag	200 gm/1K pcs	3" x 7.5" x 7.5"	5.0K	17" x 15" x 13.5"	80.0K	23 kgs
TO-92 T&A	2K/ammo box	645 gm/2K pcs	12.5" x 8" x 1.8"	2.0K	17" x 15" x 13.5"	32.0K	12.5 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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