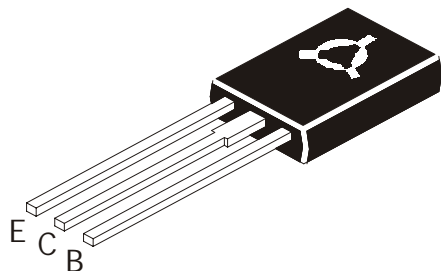


NPN EPITAXIAL SILICON POWER TRANSISTOR

CSC1507



TO126
Plastic Package

Color TV Chroma Output

ABSOLUTE MAXIMUM RATINGS

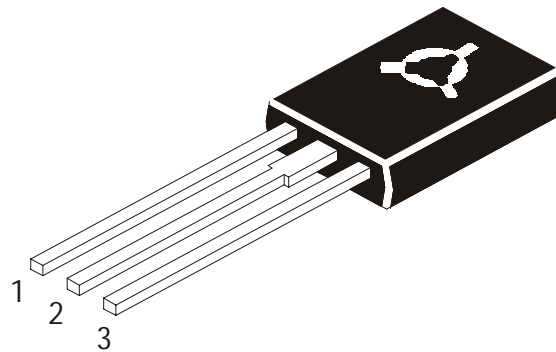
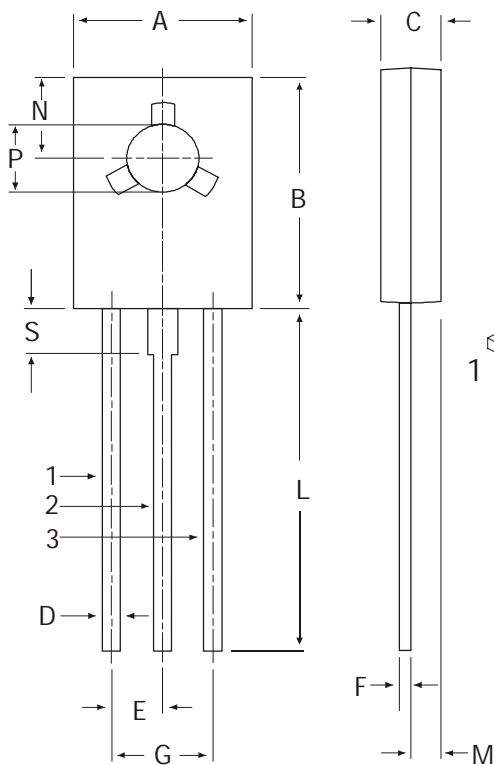
DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	V_{CBO}	300	V
Collector -Emitter Voltage	V_{CEO}	300	V
Emitter Base Voltage	V_{EBO}	7	V
Collector Current	I_C	200	mA
Collector Dissipation @ $T_c=25^\circ\text{C}$	P_C	10	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Base Voltage	V_{CBO}	$I_C=100\mu\text{A}, I_E=0$	300	-	-	V
Collector Emitter Voltage	V_{CEO}	$I_C=10\text{mA}, I_B=0$	300	-	-	V
Emitter Base Voltage	V_{EBO}	$I_E=10\mu\text{A}, I_C=0$	7	-	-	V
Collector Cut off Current	I_{CBO}	$V_{CB}=200\text{V}, I_E=0$	-	-	100	μA
DC Current Gain	h_{FE}	$I_C=10\text{mA}, V_{CE}=10\text{V}$	40	-	240	
Collector Emitter Saturation Voltage	$V_{CE(Sat)}$	$I_C=50\text{mA}, I_B=5\text{mA}$	-	-	2.0	V
Current Gain - Bandwidth Product	f_T	$I_C=10\text{mA}, V_{CE}=30\text{V}$	40	-	-	MHz
Output Capacitance	C_{ob}	$V_{CB}=50\text{V}, I_E=0$ $f=1\text{MHz}$	-	4	-	pF

Classification

h_{FE}	R	O	Y	G
	40 - 80	70 - 140	120 - 240	200 - 400

TO-126 (SOT-32) Plastic Package**Pin Configuration**

1. Emitter
2. Collector
3. Base

DIM	MIN	MAX
A	7.4	7.8
B	10.5	10.8
C	2.4	2.7
D	0.7	0.9
E	2.25 TYP.	
F	0.49	0.75
G	4.5 TYP.	
L	15.7 TYP.	
M	1.27 TYP.	
N	3.75 TYP.	
P	3.0	3.2
S	2.5 TYP.	

All dimensions in mm.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kgs

Disclaimer

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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