

NPN PLASTIC POWER TRANSISTOR

ECB

CSD1506

TO126 Plastic Package

Complementary CSB1065

Low Frequency Power Amplifier

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

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage(open emitter)	V _{CBO}	>60	V
Collector Emitter Voltage (open base)	V _{CEO}	>50	V
Emitter Base Voltage(open collector)	V _{EBO}	>5.0	V
Collector Current (DC)	I _C	<3.0	А
Collector Current (Pulse) (1)	I _C	<4.5	А
Total Power Dissipation@ Tc=25°C	P _{tot}	<10	W
Total Power Dissipation@ Ta=25°C	P _{tot}	<1.2	W
Junction Temperature	T _i	<150	Oo
Storage Temperature	T _{stg}	-65 to +150	°C

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

DESCRIPTION	SYMBOL	. TEST CONDITION	MIN	TYP	MAX	UNIT
Collector-Cut off Current	I _{CBO}	I _E =0, V _{CB} =40V			1.0	μA
Emitter cut off Current	I _{EBO}	V_{EB} =4V, I_{C} =0			1.0	μΑ
Breakdown Voltages	V _{CEO}	I _C =1mA, I _B =0	50			V
	V _{CBO}	I _C =50μA, I _E =0	60			V
	V_{EBO}	$I_{C} = 0, I_{E} = 50 \mu A$	5			V
Saturation Voltages	V _{CE (sat)} *	I _C =2A, I _B =0.2A			1	V
	V _{BE (sat)} *				1.5	V
DC Current Gain	h _{FE} *	I _C =0.5A,V _{CE} =3V**	56		390	
Output Capacitance at f=1MHz	Co	I _E =0, V _{CB} =10V		40		pF
Transition Frequency	f⊤*	I _C =0.5A, V _{CE} =5V		90		MHz

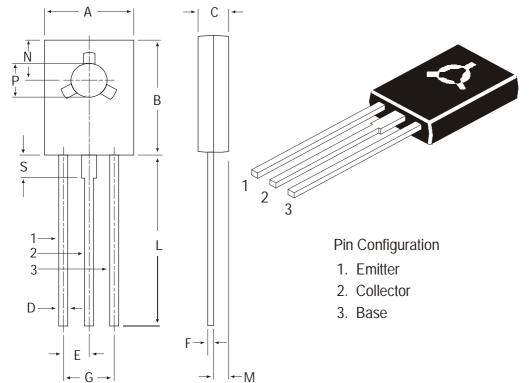
(1) Single Pulse $P_W = 100ms$

* Pulse test

**h_{FE} classification : N :56-120 Q:120-270 P: 82-180 R:180-390

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TO-126 (SOT-32) Plastic Package

DIM	MIN	MAX	
А	7.4	7.8	
В	10.5	10.8	
С	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.		
М	1.27 TYP.		
Ν	3.75 TYP.		
Р	3.0	3.2	
S	2.5 TYP.		

All diminsions 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 TO-126 Tube	500 pcs/polybag 50 pcs/tube	340 gm/500 pcs 73 gm/50 pcs	3" x 7.5" x 7.5" 3" x 3.7" x 21.5"		17" x 15" x 13.5" 19" x 19" x 19"	32K 10K	31 kgs 15 kgs

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Disclaimer

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