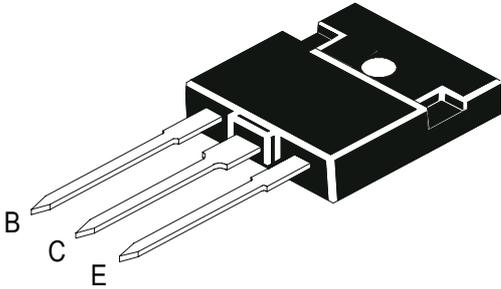


**PNP POWER TRANSISTOR**

**CSB 817F**



**TO 3P  
Plastic Package**

**Complementary CSD1047F**

**Audio Power Amplifier and DC to DC Converter**

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

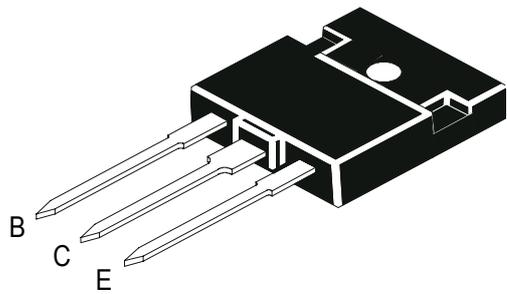
DESCRIPTION	SYMBOL	MIN	TYP	MAX	UNIT
Collector -Base Voltage(open emitter)	$V_{CBO}$	160			V
Collector -Emitter Voltage(open base)	$V_{CEO}$	140			V
Emitter Base Voltage(open collector)	$V_{EBO}$	6.0			V
Collector Current(DC)	$I_C$			12	A
Collector Current (Pulse )	$I_C$			15	A
Total Power Dissipation upto Tc=25° C	$P_{tot}$			90	W
Junction Temperature	$T_j$			150	°C
Storage Temperature	$T_{stg}$		-55 to +150		°C

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut off Current	$I_{CBO}$	$V_{CB}=80V, I_E=0$			0.1	mA
Emitter Cut off Current	$I_{EBO}$	$V_{EB}=4V, I_C=0$			0.1	mA
Breakdown Voltages	$V_{CEO}$	$I_C=10mA, I_B=0$	140			V
	$V_{CBO}$	$I_C=5mA, I_E=0$	160			V
	$V_{EBO}$	$I_E=5mA, I_C=0$	6.0			V
Saturation Voltage	$V_{CE(sat)}$	$I_C=5A, I_B=0.5A$			2.5	V
	$V_{BE(on)}$	$I_C=1A, V_{CE}=5V$			1.5	V
DC Current Gain	$h_{FE}^*$	$I_C=1A, V_{CE}=5V^{**}$	60		200	
		$I_C=6A, V_{CE}=5V$	20			
Output Capacitance at f =1MHz	$C_o$	$V_{CB}=10V, I_E=0$		300		pF
Transition Frequency	$f_T$	$I_C=1A, V_{CE}=5V$		15		MHz

# PNP POWER TRANSISTOR

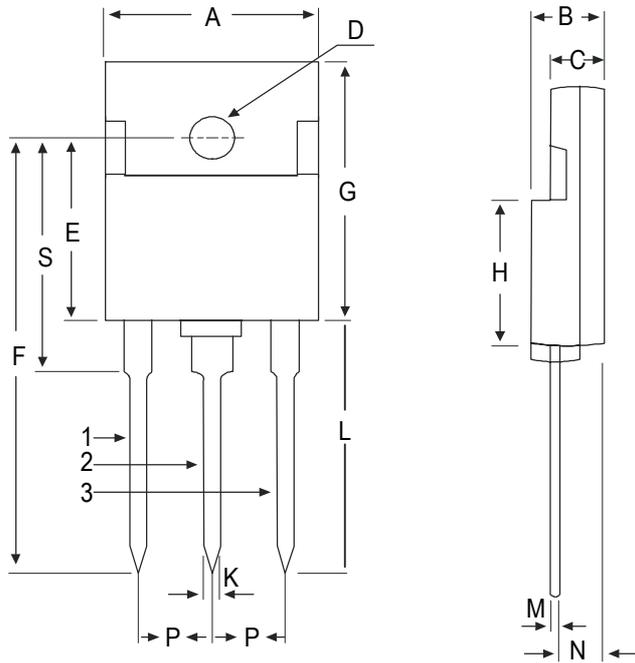
CSB 817F



TO 3P  
Plastic Package

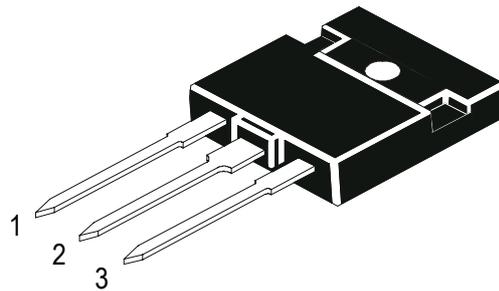
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
<b>SWITCHING TIME</b>						
		$V_{CC}=20V, I_C=1A=10$ $I_{B1} = -10 I_{B2}, R_L = 20 \Omega$				
Turn on time	$t_{on}$			0.25		$\mu s$
Storage time	$t_s$			1.61		$\mu s$
Fall time	$t_f$			0.53		$\mu s$

TO-3P (TO-218) Plastic Package



DIM	MIN	MAX
A	15.80	16.40
B	5.20	5.70
C	3.80	4.20
D	Ø 3.30	Ø 3.60
E	14.50	15.10
F	33.25	36.75
G	20.75	21.25
H	11.50	12.25
K	1.00	1.30
L	18.75	21.65
M	0.40	0.60
N	3.15	3.45
P	5.21	5.72
S	18.75	19.25

All diminsions in mm.



Pin Configuration

1. Base
2. Collector
3. Emitter

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-3P	100 pcs/polybag	628 gm/100 pcs	3" x 7.5" x 7.5"	0.3K	17" x 15" x 13.5"	4.8K	42 kgs

### **Disclaimer**

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