

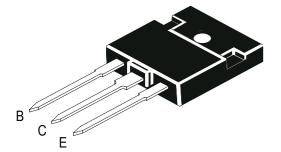
Continental Device India Limited

An IS/ISO 9002 and IECQ Certified Manufacturer



NPN POWER TRANSISTOR

CSD1047F



TO 3P Plastic Package

Complementary CSB817F

Audio Power Amplifier And DC to DC Converter

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

DESCRIPTION	SYMBOL	VALUE	MIN	TYP	MAX	UNIT
Collector -Base Voltage(open emitter)	V_{CBO}		160			V
Collector -Emitter Voltage(open base)	$V_{\sf CEO}$		160			V
Emitter Base Voltage(open collector)	V_{EBO}		6.0			V
Collector Current	I_{C}				12	Α
Collector Current (Pulse)	I_{C}				15	Α
Total Power Dissipation upto Tc=25° C	P_{tot}				90	W
Junction Temperature	T_j				150	°C
Storage Temperature	T_{stg}		-{	55 to +15	50	°C

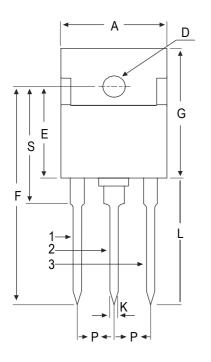
ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

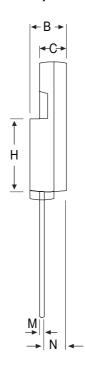
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX 0.1	UNIT mA
Collector Cut off Current	I _{CBO}	V_{CB} =80V, I_{E} =0				
Emitter Cut off Current	I_{EBO}	I_{EBO} V_{EB} =4 V , I_{C} =0			0.1	mA
Breakdown Voltages						
	V_{CEO}	I_C =10mA, I_B =0	140			V
	V_{CBO}	I_C =5mA, I_E =0	160			V
	V_{EBO}	I_E =5mA, I_C =0	6.0			V
Saturation Voltage						
	$V_{CE(sat)}$	I_{C} =5A, I_{B} =0.5A			2.5	V
Base Emitter on Voltage	$V_{BE\;(on)}$	$I_C=1A$, $V_{CE}=5V$			1.5	V
DC Current Gain	h_{FE}	I_C =1A, V_{CE} =5V **	60		200	
		I_C =6A, V_{CE} =5V	20			
Transition frequency	f_{T}	$I_C=1A, V_{CE}=5V$		15		MHz
Output Capacitance	C_{o}	V _{CB} =10V,I _E =0,f=1MHz	210			pF

** h_{FE} Classification : O : 60-120 Y: 100-200

TO 3P Plastic Package

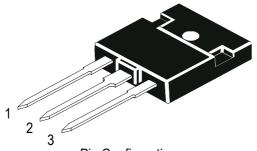
TO-3P (TO-218) Plastic Package





DIM	MIN	MAX
Α	15.80	16.40
В	5.20	5.70
С	3.80	4.20
D	Ø 3.30	Ø 3.60
Е	14.50	15.10
F	33.25	36.75
G	20.75	21.25
Н	11.50	12.25
K	1.00	1.30
L	18.75	21.65
М	0.40	0.60
N	3.15	3.45
Р	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	
T0-3P	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	

Notes CSD1047F

TO 3P Plastic Package

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 in the Data Sheet and 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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