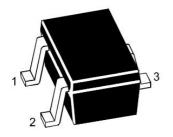




PNP EPITAXIAL PLANAR TRANSISTOR



1. BASE 2. EMITTER 3. COLLECTOR CMBT5401W SOT-323 Plastic Package

for high voltage amplifier applications

Absolute Maximum Ratings (T_a = 25°C)

o (a)					
PARAMETER	SYMBOL	VALUE	UNIT		
Collector Base Voltage	V _{CBO}	160	V		
Collector Emitter Voltage	V _{ceo}	150	V		
Emitter Base Voltage	V _{EBO}	5	V		
Collector Current Continuous	I _c	600	mA		
Power Dissipation	P _{tot}	200	mW		
Junction Temperature	T	150	°C		
Storage Temperature Range	T _{stg}	-55 to 150	°C		



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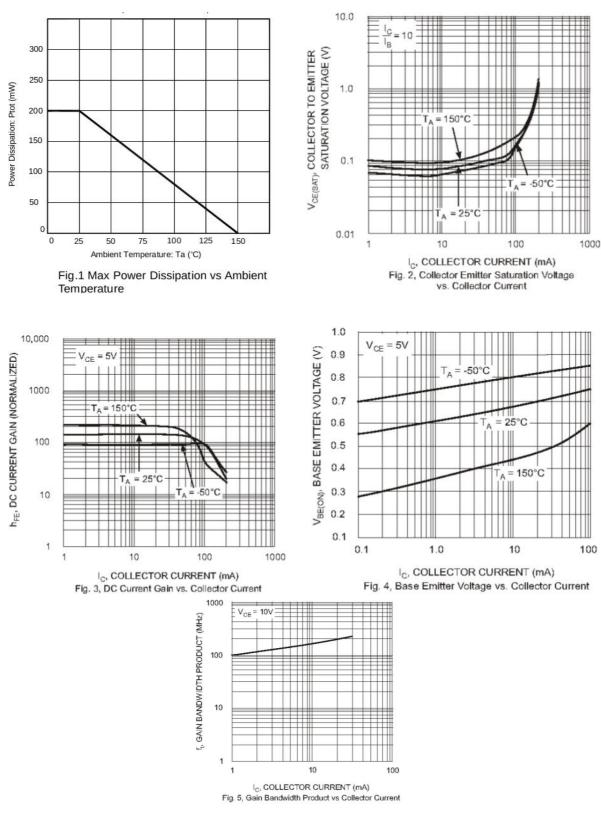


Electrical Characteristics at $T_a = 25^{\circ}C$

PARAMETER	SYMBOL	Min.	Max.	UNIT
DC Current Gain				
at V _{ce} = 5 V, I _c = 1 mA	h _{FE}	50		
at V _{ce} = 5 V, I _c = 10 mA		60	240	
at V _{ce} = 5 V, I _c = 50 mA		50		
Collector Base Cutoff Current at V $_{CB}$ = 120 V	I _{сво}		E0	
Emitter Base Cutoff Current at V _{EB} = $3 V$	I _{EBO}		50 50	nA
Collector Base Breakdown Voltage at I _c = 100 µA	V _{(BR)CBO}	160		v
Collector Emitter Breakdown Voltage at I _c = 1 mA	V _{(BR)CEO}	150		v
Emitter Base Breakdown Voltage at I _E = 10 µA	V _{(BR)EBO}	5		v
Collector Emitter Saturation Voltage at I _c = 10 mA, I _B = 1 mA at I _c = 50 mA, I _B = 5 mA	V _{CE(sat)}		0.2 0.5	v
Base Emitter Saturation Voltage at I _c = 10 mA, I _B = 1 mA at I _c = 50 mA, I _B = 5 mA	V _{BE(sat)}		1	V
Gain Bandwidth Product at V _{ce} = 10 V, - C = 10 mA, f = 100 MHz	f _T	100	300	MHz
Output Capacitance at V _{св} =10 V, f = 1 MHz	C _{obo}		6	pF



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CHARACTERISTIC CURVES





Customer Notes:

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.

2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

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