

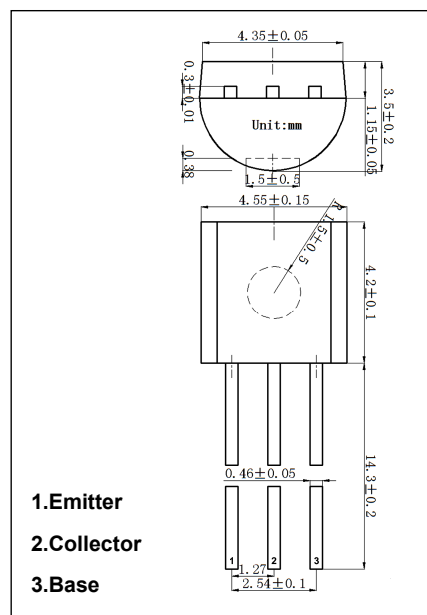
TO-92 Plastic-Encapsulate Transistors

ALJD882P01 NPN Transistors

Features

- Power dissipation

Marking: ALJD882P01



Maximum Ratings (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector Base Voltage	40	V
V _{CEO}	Collector Emitter Voltage	30	V
V _{EBO}	Emitter Base Voltage	6	V
I _c	Collector Current	2	A
P _c	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	200	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	- 55 to +150	°C

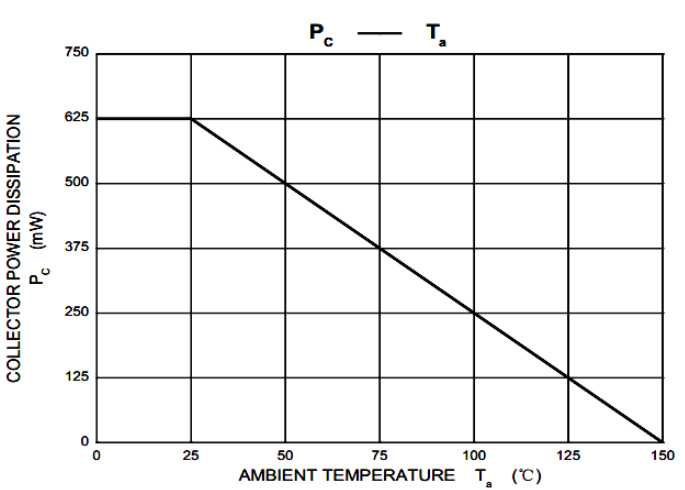
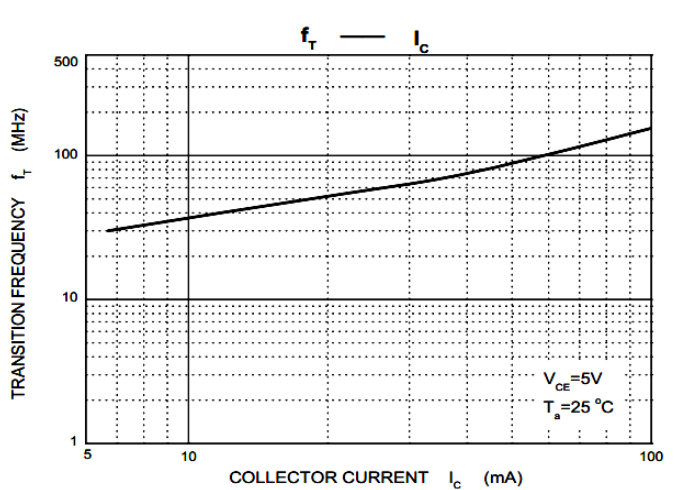
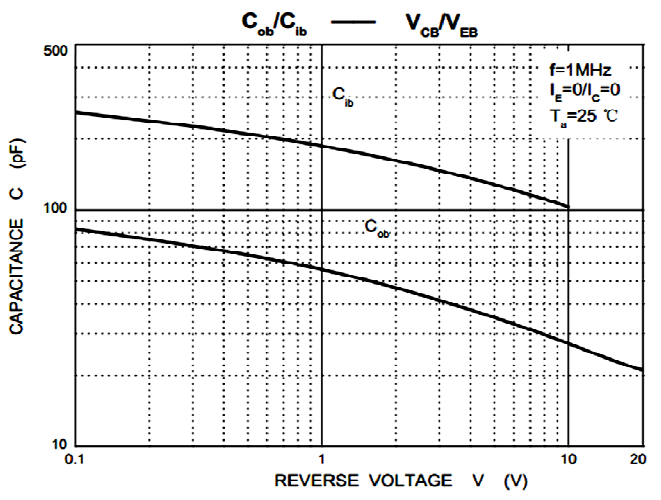
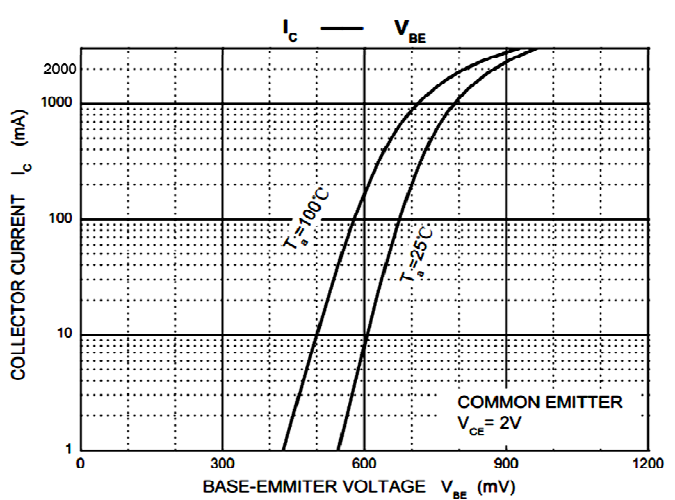
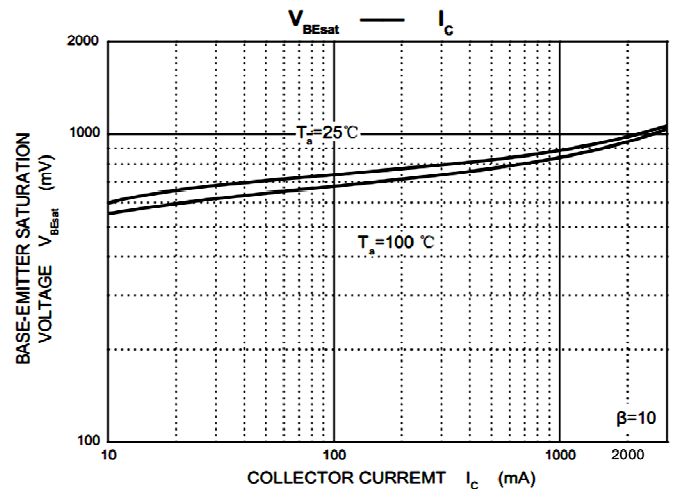
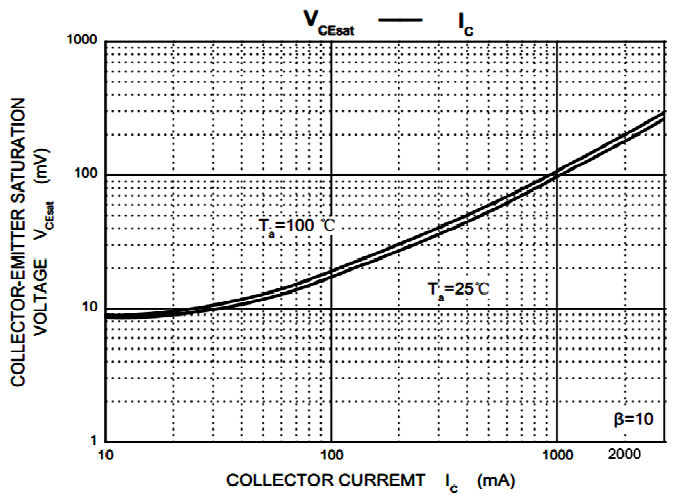
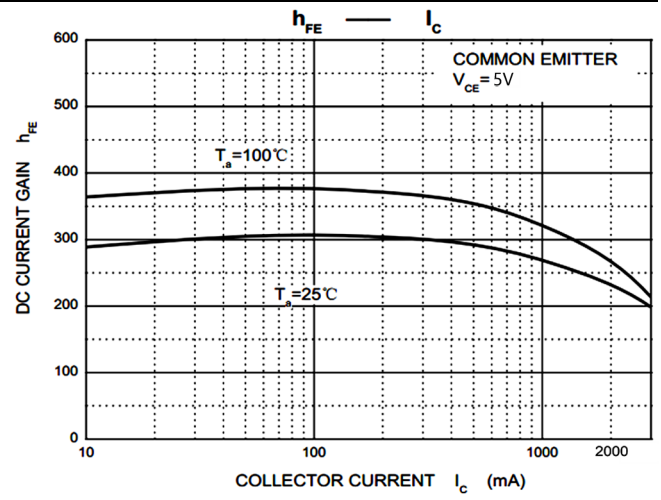
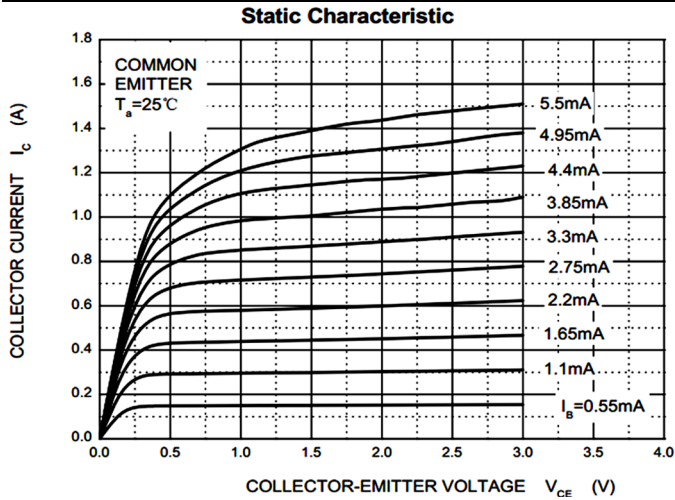
Electrical Characteristics (T_a=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _c =100μA, I _E =0	40			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _c =10mA, I _B =0	30			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =100μA, I _c =0	6			V
I _{cBO}	Collector cut-off current	V _{CB} =40V, I _E =0			1	μA
I _{cEO}	Collector cut-off current	V _{CE} =30V, I _B =0			10	μA
I _{EBO}	Emitter cut-off current	V _{EB} =6V, I _c =0			1	μA
h _{FE(1)}	DC current gain	V _{CE} =5V, I _c =1mA	60			
h _{FE(1)}		V _{CE} =2V, I _c =1A	60		400	
V _{CE(sat)}	Collector-emitter saturation voltage	I _c =2A, I _B =0.2A			0.5	V
V _{BE(sat)}	Base-emitter saturation voltage	I _c =2A, I _B =0.2A			1.5	V
f _T	Transition frequency	V _{CE} =5V, I _c =0.1A, f=10MHz	50	80		MHz

Classification OF h_{FE(1)}

Rank	R	O	Y	GR
Range	60-120	100-200	160-320	200-400

Typical Characteristics



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