



(NPN)

FEATURES

Power dissipation

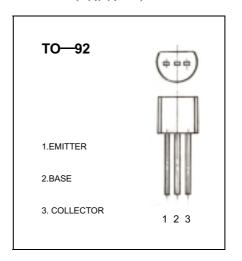
 P_{CM} : 1 W (Tamb=25°C)

Collector current

I_{CM} : 1.5 A

Collector-base voltage

V_{(BR)CBO}: 40 V



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR) _{CBO}	Ic= 100 μ A , I _E =0	40			V
Collector-emitter breakdown voltage	V(BR) _{CEO}	I _C = 0.1 mA , I _B =0	25			V
Emitter-base breakdown voltage	V(BR) _{EBO}	I _E = 100 μ A, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} = 40 V , I _E =0			0.1	μ A
Collector cut-off current	I _{CEO}	V _{CB} = 20 V , I _E =0			0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V , I _C =0			0.1	μА
DC aument main(mate)	H _{FE (1)}	V _{CE} = 1 V , I _C = 100 mA	85		300	
DC current gain(note)	H _{FE (2)}	V _{CE} = 1 V , I _C =800 mA	40			
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 800 mA, I _B = 80 mA			0.5	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C = 800mA, I _B = 80 mA			1.2	V
Base-emitter voltage	V _{BE}	I _E = 1.5A			1.6	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 50mA f =30 MHz	190			MHz

CLASSIFICATION OF H_{FE(1)}

Rank	В	С	D
Range	85-160	120-200	160-300

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