

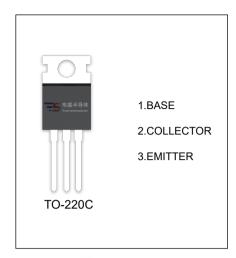
3DD13007N36 TRANSISTOR (NPN)

FEATURES

Power switching applications

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	ymbol Parameter		Unit
V _{CBO}	Collector-Base Voltage	700	V
V _{CEO}	Collector-Emitter Voltage		V
V _{EBO}	EBO Emitter-Base Voltage		V
Ic	Collector Current -Continuous		Α
Pc	Collector Power Dissipation		W
T_J, T_stg	Operation Junction and Storage Temperature Range		°C





ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 1mA,I _E =0	700			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA,I _B =0	400			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA,I _C =0	9			V
Collector cut-off current	I _{CBO}	V _{CB} =700V,I _E =0			100	μА
Collector cut-off current	I _{CEO}	V _{CE} =400V,I _B =0			100	μА
Emitter cut-off current	I _{EBO}	V _{EB} =9V,I _C =0			100	μА
DC ourrent goin	h _{FE(1)}	V _{CE} =5V, I _C =2A	10		40	
DC current gain	h _{FE(2)}	V _{CE} =5V, I _C =8A	5			
	V _{CE(sat)1}	I _C =2A,I _B =0.4A			1	V
Collector-emitter saturation voltage	V _{CE(sat)2}	I _C =5A,I _B =1A			2	V
	V _{CE(sat)3}	I _C =8A,I _B =2A			3	V
Dana amittar acturation valtage	V _{BE(sat)1}	I _C =2A,I _B =0.4A			1.2	V
Base-emitter saturation voltage	V _{BE(sat)2}	I _C =5A,I _B =1A			1.6	V
Storage time t _S		I _C =500mA (UI9600)	3		6	μs
Fall time	t _f	I _C =500mA (UI9600)			0.5	μs
Transition frequency	f _T	V _{CE} =10V, I _C =0.5A,f=1MHz	4			MHz

CLASSIFICATION OF h_{FE(1)}

Range	10-15	15-20	20-25	25-30	30-35	35-40
-------	-------	-------	-------	-------	-------	-------

CLASSIFICATION OF ts

Rank	A	В	С
Range	3-4(μs)	4-5(μs)	5-6 (μ s)



Typical Characterisitics

3DD13007N36

