

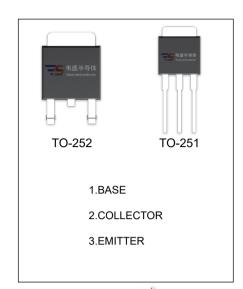
3DD13002 TRANSISTOR (NPN)

FEATURE

Power Switching Applications

MAXIMUM RATINGS(Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector -Base Voltage	600	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	1	А
Pc	Collector Power Dissipation	1.25	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~150	°C





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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μΑ, I _E =0	600			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B =0	400			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μΑ, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} = 600V, I _E =0			100	μA
Conector cut-on current	I _{CEO}	V _{CB} = 400V, I _E =0			100	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 7V, I _C =0			100	μA
Dc current gain	h _{FE1}	V _{CE} = 10 V, I _C = 200mA	9		40	
De current gam	h _{FE2}	V _{CE} = 10 V, I _C = 0.25mA	5			
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =200mA, I _B = 40mA			0.5	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =200mA, I _B = 40mA			1.1	V
Transition frequency	f _T	V _{CE} =10V, I _C =100mA f =1MHz	5			MHz
Fall time t _f		I _C =1A, I _{B1} =-I _{B2} =0.2A			0.5	μs
Storage time	t _s	V _{CC} =100V			2.5	μs

CLASSIFICATION OF hFE1

Range	9-15	15-20	20-25	25-30	30-35	35-40
Range	9-15	15-20	20-25	25-50	30-33	35-40



Typical Characteristics

3DD13002

