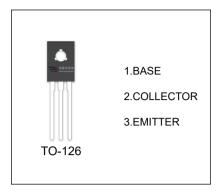


3DD13002 TRANSISTOR (NPN)

FEATURES

Power switching applications



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity	
3DD13002	TO-126	Bulk	200pcs/Bag	
3DD13002-TU	TO-126	Tube	60pcs/Tube	

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

Symbol	pol Parameter		Unit
V _{CBO}	V _{CBO} Collector -Base Voltage		V
V _{CEO}	CEO Collector-Emitter Voltage		V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	1	Α
Pc	Collector Power Dissipation	1.25	W
T _J ,T _{stg}	T _J ,T _{stg} Operation Junction and Storage Temperature Range		$^{\circ}$



T_a =25 $^{\circ}$ 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
	I _{CEO}	V _{CB} = 400V, I _E =0			100	μΑ
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	
	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⊤	V _{CE} =10V, I _C =100mA f=1MHz	5			MHz
Fall time Storage time	t _f	I _C =1A, I _{B1} =-I _{B2} =0.2A V _{CC} =100V			0.5	μs
	t _s				2.5	μs

CLASSIFICATION OF hFE1

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