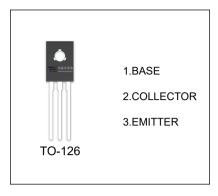


3DD13003N3 TRANSISTOR (NPN)

FEATURES

- Power switching applications
- Good high temperature
- Low saturation voltage
- High speed switching



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity	
3DD13003N3	TO-126	Bulk	200pcs/Bag	
3DD13003N3-TU	TO-126	Tube	60pcs/Tube	

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	700	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	9	V
Ic	Collector Current	1.5	А
Pc	P _C Collector Power Dissipation		W
R _{0JA} Thermal Resistance From Junction To Ambient		100	°C/W
T _J ,T _{stg} Operation Junction and Storage Temperature Range		-55~+150	°C



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 = 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 ₀		I _E =1mA,I _C =0	9			V
Collector cut-off current	I _{CBO}	V _{CB} =700V,I _E =0			10	μ А
Collector cut-off current	I _{CEO}	V _{CE} =400V,I _B =0			50	μА
Emitter cut-off current	I _{EBO}	V _{EB} =9V,I _C =0		10	μА	
	h _{FE(1)}	V _{CE} =5V, I _C =0.2A	10		40	
DC current gain	h _{FE(2)}	V_{CE} =5V, I_{C} =1mA	8			
	h _{FE(3)}	V_{CE} =5V, I_{C} =1.5A	5			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A,I _B =0.2A			0.5	V
Base-emitter saturation voltage V _{BE(sat)}		I _C =1A,I _B =0.25A			1.5	V
Storage time	ts	I _C =250mA (UI9600)	2		4	μ s

CLASSIFICATION OF h_{FE(1)}

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

$\textbf{CLASSIFICATION OF}\ t_{\text{S}}$

Rank	A1	A2	B1	B2
Range	2-2.5 (µ s)	2.5-3(μs)	3-3.5(μs)	3.5-4 (µ s)



