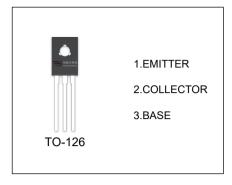


2SD2583 TRANSISTOR (NPN)

FEATURES

- Low V_{CE(sat)}
- High DC Current Gain



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SD2583	TO-126	Bulk	200pcs/Bag
2SD2583-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current	5	Α
Pc	Collector Power Dissipation	1	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	125	°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 =100μA,I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =30V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =6V,I _C =0			0.1	μA
DC comment main	h _{FE(1)}	V _{CE} =2V, I _C =1A	150		600	
DC current gain	h _{FE(2)}	V _{CE} =2V, I _C =4A	50			
	V _{CE(sat)1}	I _C =1A,I _B =0.05A			0.15	V
Collector-emitter saturation voltage	V _{CE(sat)2}	I _C =2A,I _B =0.1A			0.25	V
	V _{CE(sat)3}	I _C =4A,I _B =0.2A			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =2A,I _B =0.1A			1.5	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		77		pF
Transition frequency	f _T	V _{CE} =10V,I _C =50mA		120		MHz