

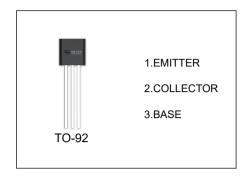
2SD1835 TRANSISTOR (NPN)

FEATURES

- Large Current Capacity.
- Low Collector-to-emitter Saturation Voltage.
- Fast Switching Time.

APPLICATIONS

 Voltage Regulators, Relay Drivers, Lamp Drivers, Electrical Equipment.



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity	
2SD1835	TO-92	Bulk	1000pcs/Bag	
2SD1835-TA	TO-92	Таре	2000pcs/Box	

MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}			V	
V _{EBO}			V	
I _C	Collector Current	2	А	
Pc	Collector Power Dissipation	750	mW	
R ₀ JA	R θ JA Thermal Resistance From Junction To Ambient 166 T J, T stg Operation Junction and Storage Temperature Range -55~+150		°C /W	
T _J ,T _{stg}			$^{\circ}$	



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 = 0.01mA,I _E =0	60			٧
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.01mA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =50V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.1	μA
DC gurrent rain	h _{FE(1)}	V _{CE} =2V, I _C =100mA	100		560	
DC current gain	h _{FE(2)}	V _{CE} =2V, I _C =1.5A	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A,I _B =50mA			0.4	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =1A,I _B =50mA			1.2	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		12		pF
Transition frequency	f _T	VcE=10V,Ic=50mA		150		MHz

CLASSIFICATION OF h_{FE(1)}

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RANK	R	S	Т	U
RANGE	100-200	140-280	200-400	280-560



