

2SD1817

Driver Applications

Applications

· Motor drivers, hammer drivers, relay drivers.

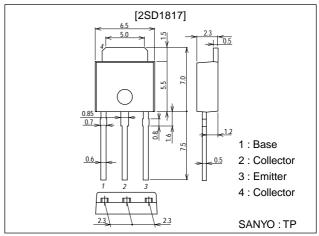
Features

- · High DC current gain.
- · Small and slim package permitting the 2SD1817-applied sets to be made more compact.

Package Dimensions

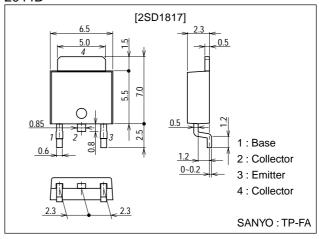
unit:mm

2045B



unit:mm

2044B



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Specifications

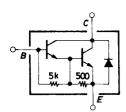
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{СВО}		80	V
Collector-to-Emitter Voltage	VCEO		60	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	IC		3	Α
Collector Current (Pulse)	I _{CP}		6	Α
Collector Dissipation	PC		1	W
		Tc=25°C	15	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

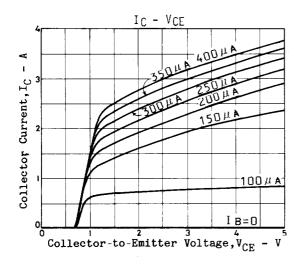
Electrical Characteristics at Ta = 25°C

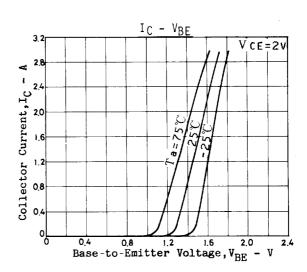
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	01111
Collector Cutoff Current	I _{CBO}	V _{CB} =60V, I _E =0			10	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			2.5	mA
DC Current Gain	h _{FE} 1	V _{CE} =2V, I _C =1A	2000			
	h _{FE} 2	V _{CE} =2V, I _C =2A	1000			
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =2A, I _B =4mA			1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =2A, I _B =4mA			2.0	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =1mA, I _E =0	80			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =25mA, R _{BE} =∞	60			V

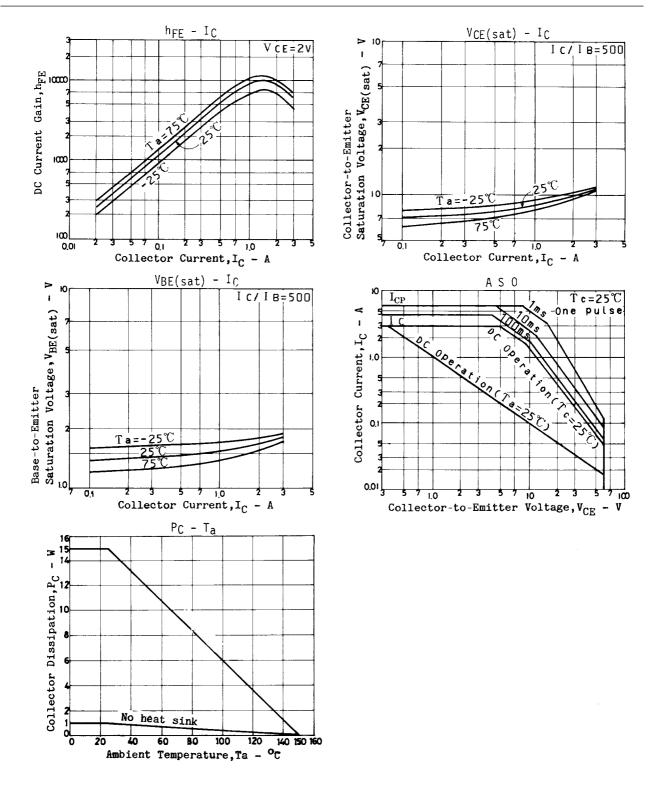
Electrical Connection



Unit (resistance : Ω)







2SD1817

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