NPN Epitaxial Planar Silicon Transistor



2SD1799

Driver Applications

Applications

· Motor drivers, printer hammer drivers, relay drivers, voltage regulator control.

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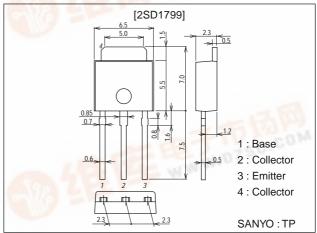
Features

- · High DC current gain (h_{FE}≥4000).
- · Wide ASO.
- · Large current capacity.
- · Small and slim package making it easy to make 2SD1799-applied sets smaller.

Package Dimensions

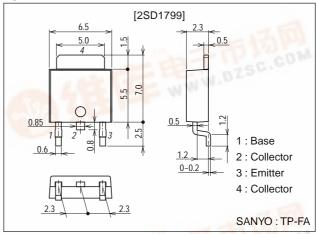
unit:mm

2045B



unit:mm

2044B



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 parameters) listed in products specifications of any and all SANYO products described or contained
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SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters
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Specifications

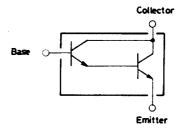
Absolute Maximum Ratings at Ta = 25°C

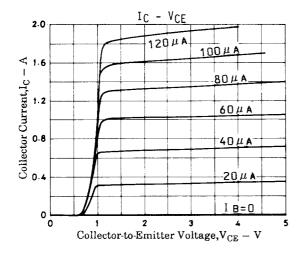
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		30	V
Collector-to-Emitter Voltage	VCEO		25	V
Emitter-to-Base Voltage	V _{EBO}		10	V
Collector Current	IC		3	Α
Collector Current (Pulse)	I _{CP}		5	Α
Collector Dissipation	PC		1	W
	1 0	Tc=25°C	15	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

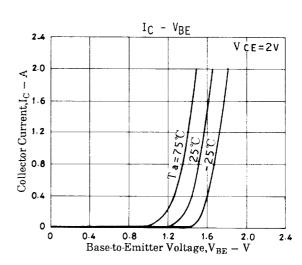
Electrical Characteristics at Ta = 25°C

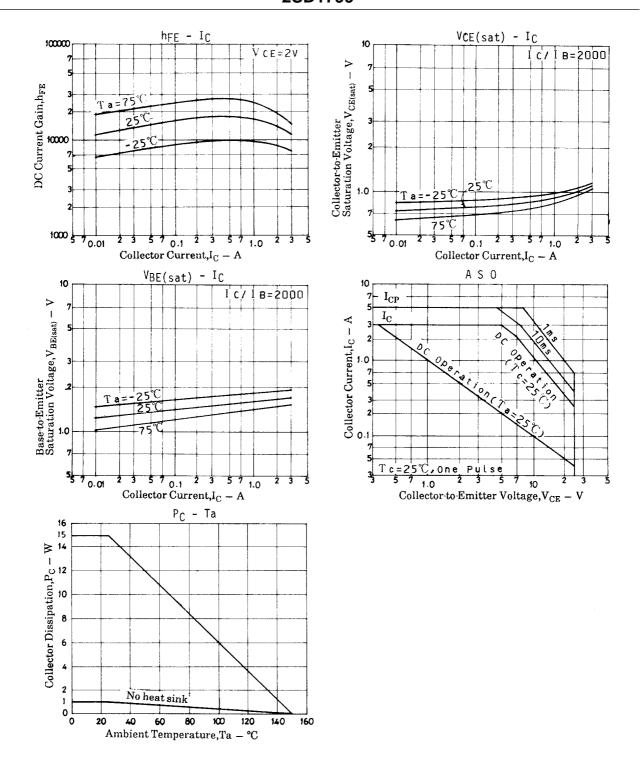
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Collector Cutoff Current	I _{CBO}	V _{CB} =20V, I _E =0			1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =8V, I _C =0			1	μA
DC Current Gain	h _{FE} 1	V _{CE} =2V, I _C =500mA	4000			
De Guiteit Gairi	h _{FE} 2	V _{CE} =2V, I _C =10mA	3000			
Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =50mA		120		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =0.5mA			1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =1A, I _B =0.5mA			2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	30			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	25			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	10			V

Electrical Connection









2SD1799

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