



120V/1.5A Driver Applications

Applications

· Motor drivers, printer hammer drivers, relay drivers.

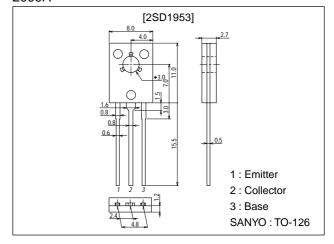
Features

- · Darlington connection.
- · High DC current gain.
- \cdot Low dependence of DC current gain on temperature.

Package Dimensions

unit:mm

2009A



Specifications

Absolute Maximum Ratings at Ta = 25°C

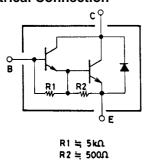
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		120	V
Collector-to-Emitter Voltage	VCEO		120	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	IC		1.5	Α
Collector Current (Pulse)	I _{CP}		3	Α
Collector Dissipation	PC		1	W
	10	Tc=25°C	10	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

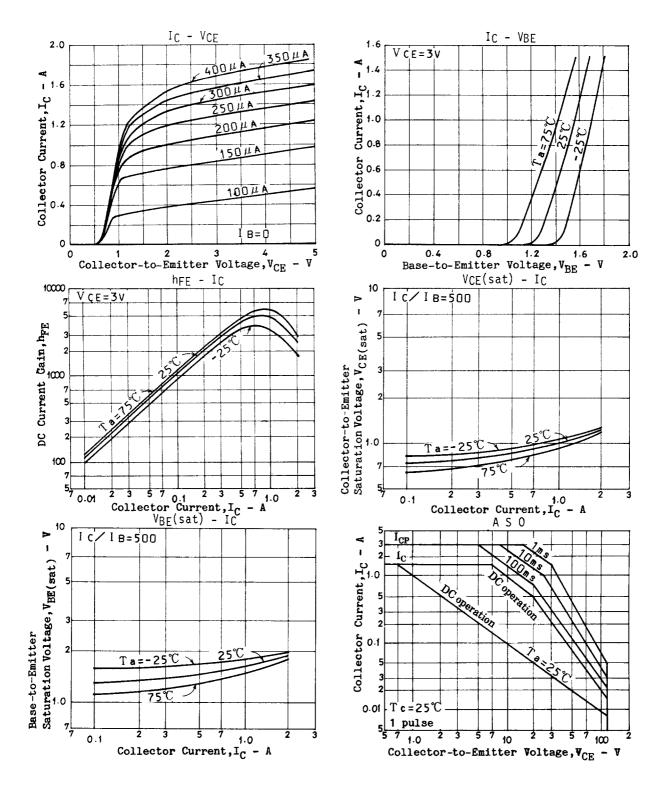
Electrical Characteristics at Ta = 25°C

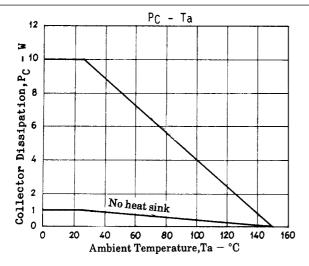
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =100V, I _E =0			10	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			2.5	mA
DC Current Gain	h _{FE} 1	V _{CE} =3V, I _C =0.5A	1000			
	h _{FE} 2	V _{CE} =3V, I _C =1A	2000		30000	
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =1A, I _B =2mA			1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =1A, I _B =2mA			2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =100μA, I _E =0	120			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =10mA, R _{BE} =∞	120			V

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Electrical Connection







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