2SC5476



85V/3A Driver Applications

Applications

· Suitable for use in switching of L load (motor drivers, printer hammer drivers, relay drivers).

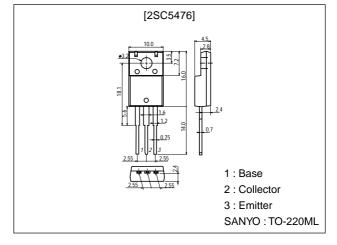
Features

- · High DC current gain.
- · Large current capacity and wide ASO.
- · Contains a Zener diode of 95±10V between collector and base.
- · Uniformity in collector-to-base voltage due to adoption of accurate impurity diffusion process.
- · High inductive load handling capability.

Package Dimensions

unit:mm

2041A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		85*	V
Collector-to-Emitter Voltage	VCEO		85*	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	lс		3	Α
Collector Current (Pulse)	I _{CP}		5	Α
Base Current	I _B		0.5	Α
Collector Dissipation	PC		2	W
		Tc=25°C	20	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

^{*:} With a Zener diode of (95±10V).

Electrical Characteristics at Ta = 25°C

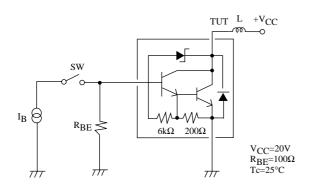
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oill
Collector Cutoff Current	ICBO	V _{CB} =70V, I _E =0			10	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			3	mA
DC Current Gain	hFE	V _{CE} =3V, I _C =1.5A	2000	6000		
Gain-Bandwidth Product	fT	V _{CE} =5V, I _C =1.5A		50		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1.5A, I _B =3mA		0.9	1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =1.5A, I _B =3mA			2.0	V

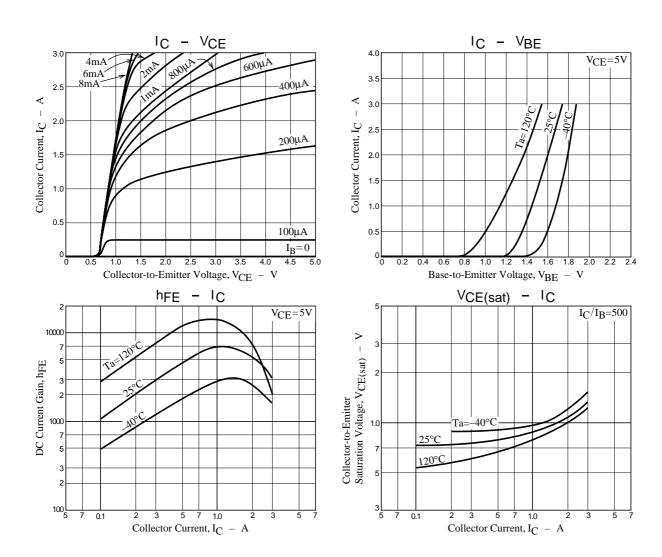
- Continued on next page.
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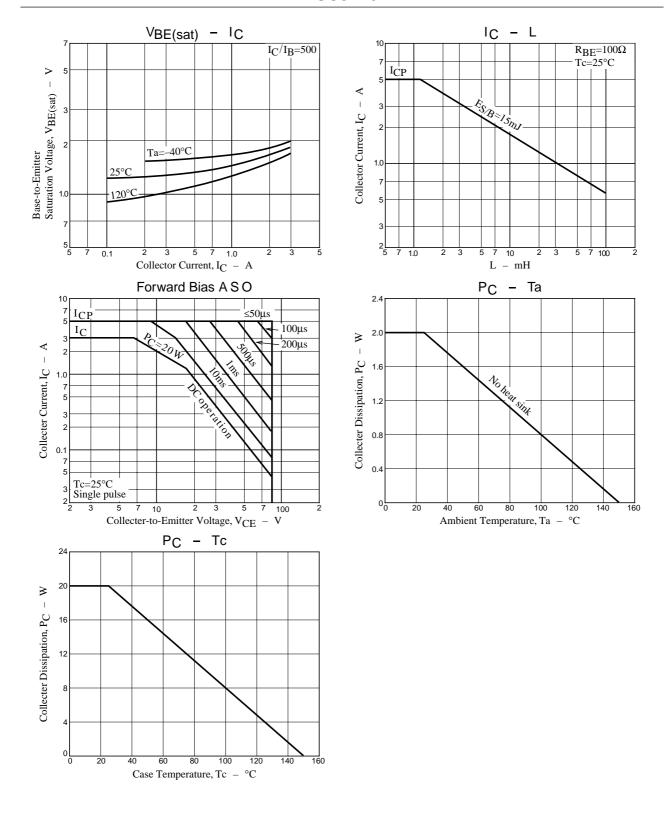
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	OIIII
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =0.1mA, I _E =0	85	95	105	V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =1mA, R _{BE} =∞	85	95	105	V
Inductive Load Voltage	Es/b	L=100mH, R_{BE} =100 Ω	15			mJ

Es/b Test Circuit







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