



Driver Applications

Applications

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

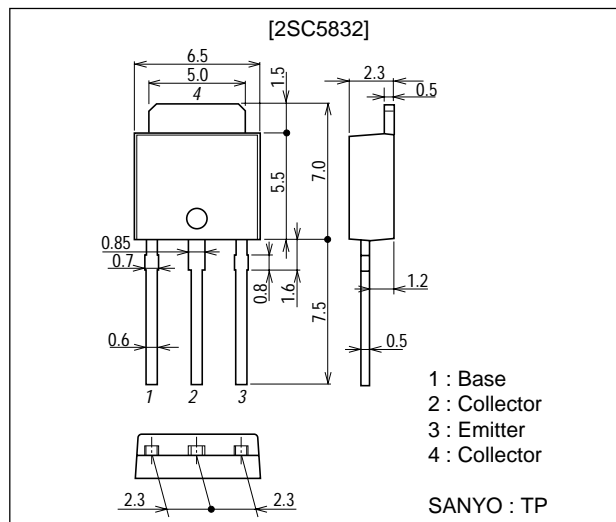
Features

- High DC current gain.
- Wide ASO.
- On-chip zener diode of $65 \pm 10V$ between collector and base.
- Uniformity in collector-to-base voltage.
- Large inductive load handling capability.

Package Dimensions

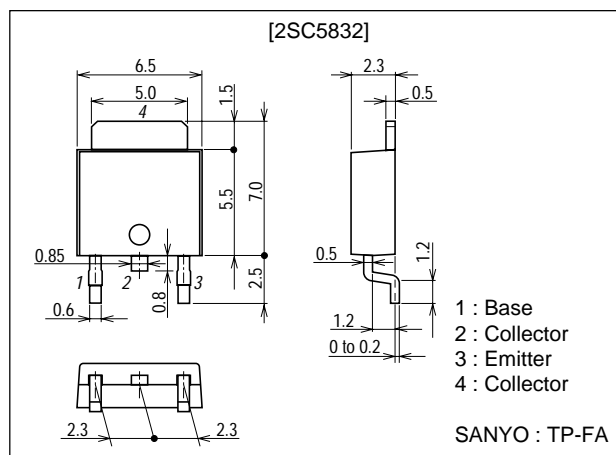
unit : mm

2045B



unit : mm

2044B



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Specifications

Absolute Maximum Ratings at Ta=25°C

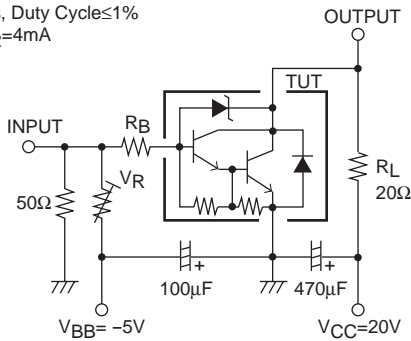
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CB0}	On-chip zener diode(65±10V)	55	V
Collector-to-Emitter Voltage	V _{CEO}	On-chip zener diode(65±10V)	55	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	I _C		2	A
Collector Current (Pulse)	I _{CP}		4	A
Collector Dissipation	P _C		1.0	W
		T _C =25°C	10	W
Junction Temperature	T _J		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I _{CB0}	V _{CB} =40V, I _E =0			10	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			2	mA
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =1A	1000	4000		
Gain-Bandwidth Product	f _T	V _{CE} =5V, I _C =1A		180		MHz
Inductive Load	Es / b	L=100mH, R _{BE} =100Ω	25			mJ
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =4mA		1.0	1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =1A, I _B =4mA			2.0	V
Collector-to-Base Breakdown Voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	55	65	75	V
Collector-to-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =1mA, R _{BE} =∞	55	65	75	V
Turn-ON Time	t _{on}	See specified Test Circuit.		0.2		μs
Storage Time	t _{stg}	See specified Test Circuit.		3.5		μs
Fall Time	t _f	See specified Test Circuit.		0.5		μs

Switching Time Test Circuit

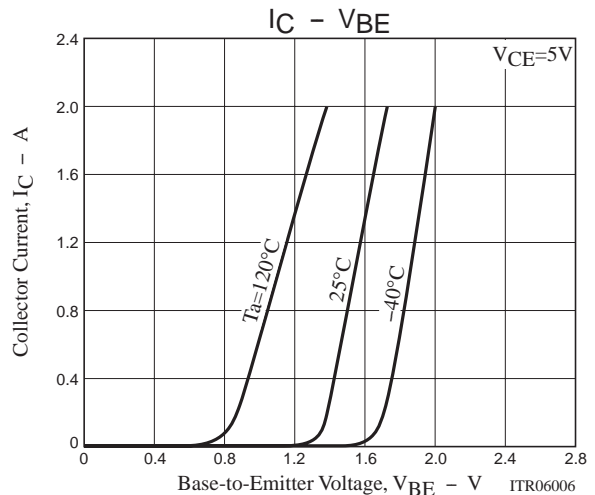
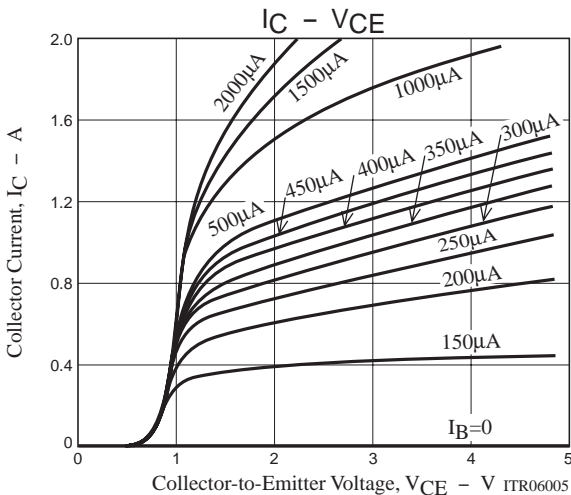
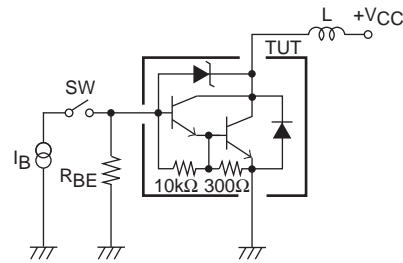
PW=50μs, Duty Cycle≤1%
I_{B1} = -I_{B2} = 4mA



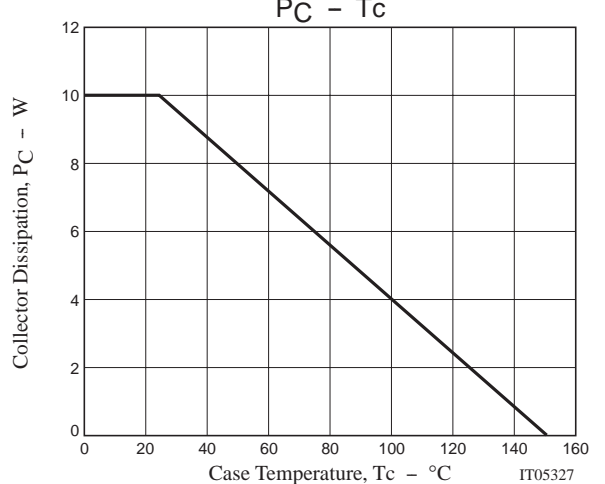
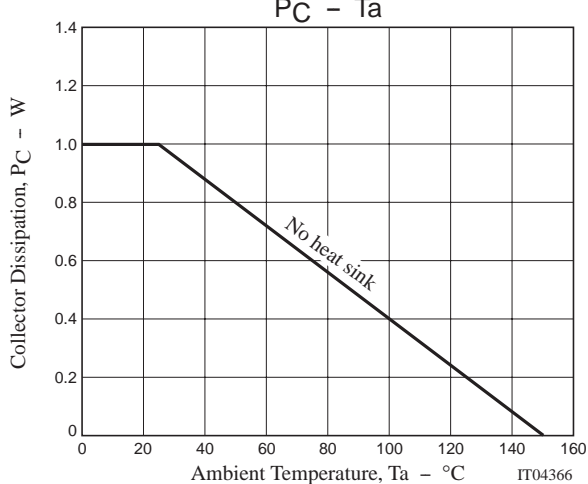
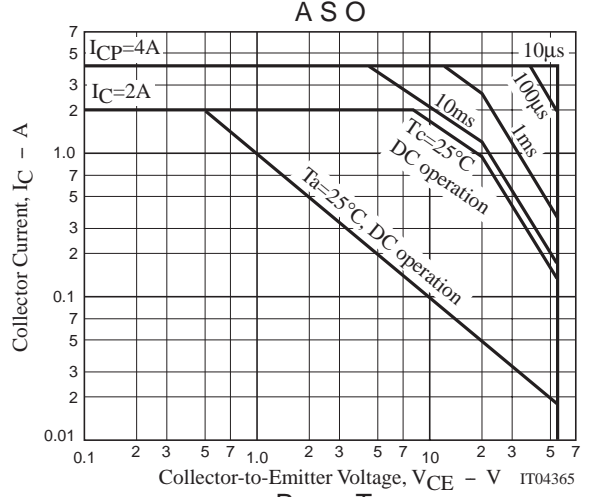
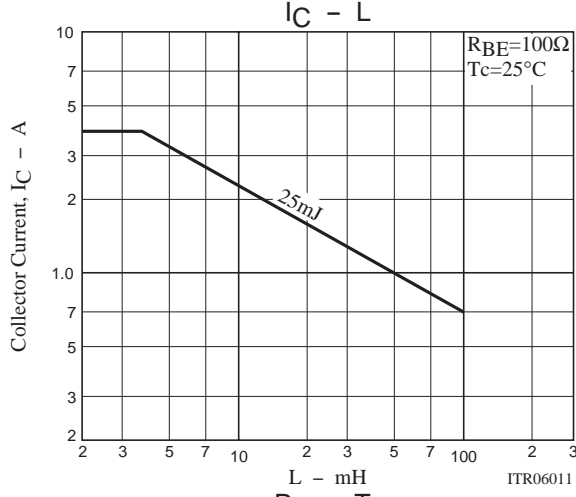
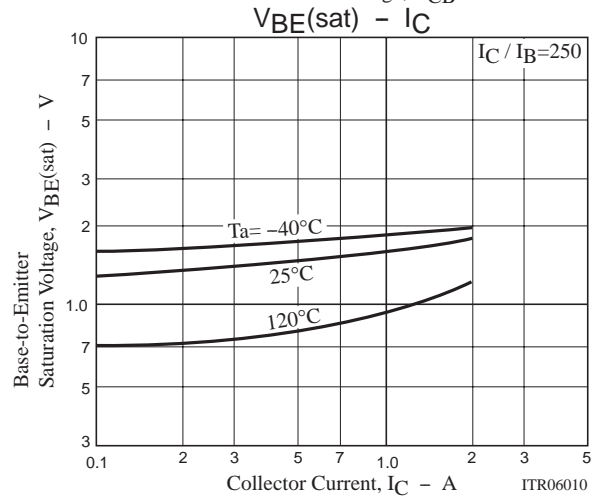
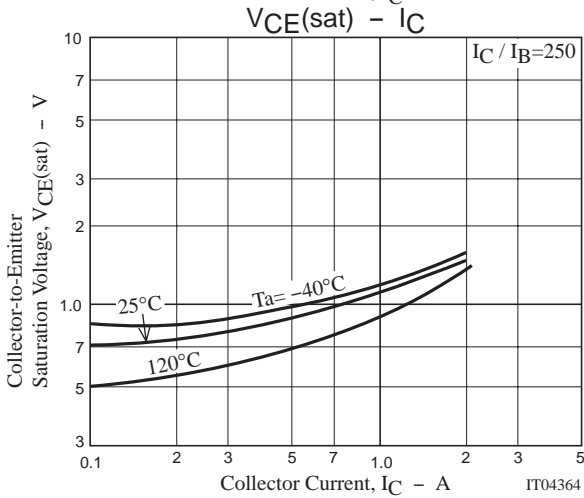
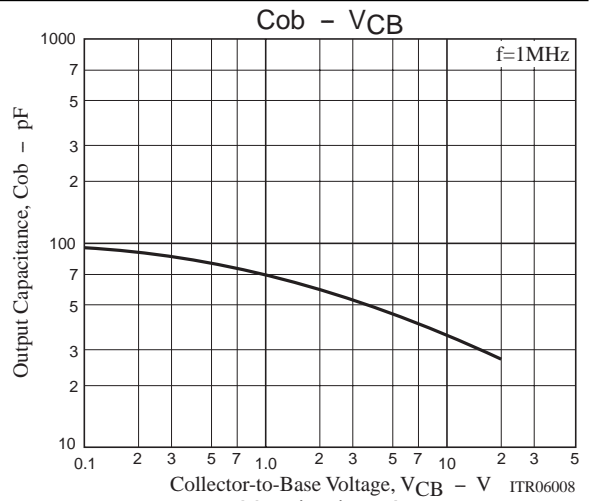
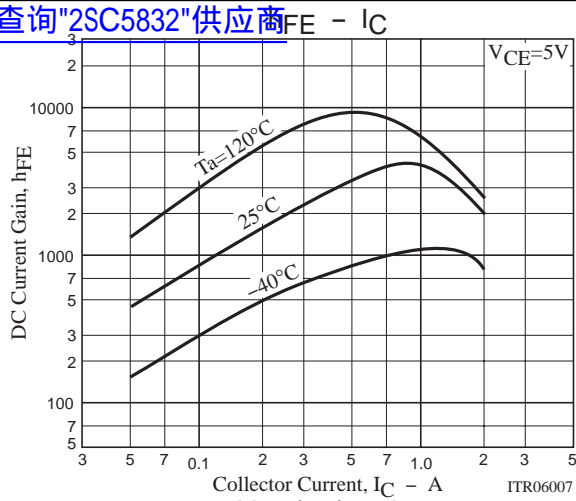
I_C=250A, I_{B1} = -250A, I_{B2}=1A

Es / b Test Circuit

V_{CC}=20V, R_{BE}=100Ω



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