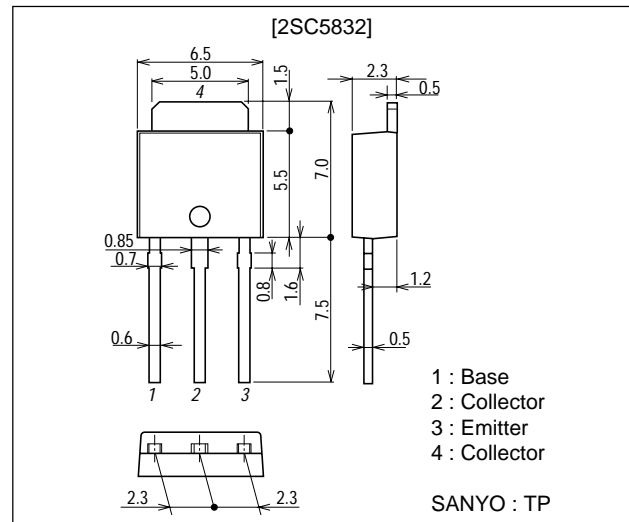
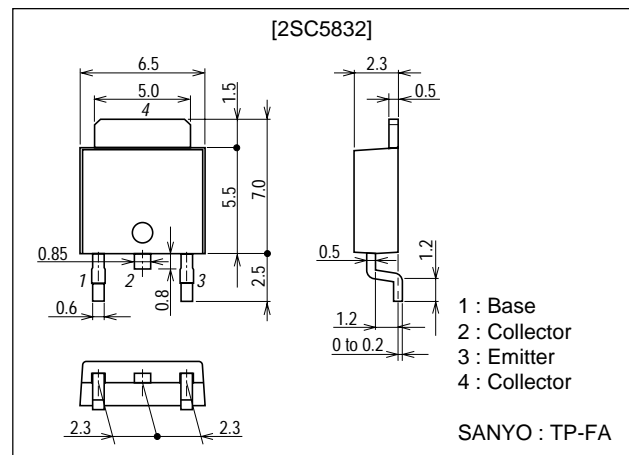


2SC5832**SANYO****Driver Applications****Applications**

- 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 Dimensionsunit : mm
2045Bunit : mm
2044B

- Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.
- SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

SANYO Electric Co.,Ltd. Semiconductor Company

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

Specifications

Absolute Maximum Ratings at Ta=25°C

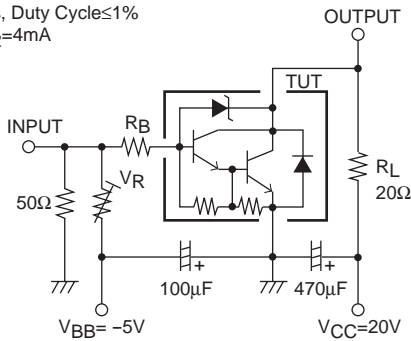
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CB0}	On-chip zener diode(65±10V)	55	V
Collector-to-Emitter Voltage	V _{CEO}	On-chip zener diode(65±10V)	55	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	I _C		2	A
Collector Current (Pulse)	I _{CP}		4	A
Collector Dissipation	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

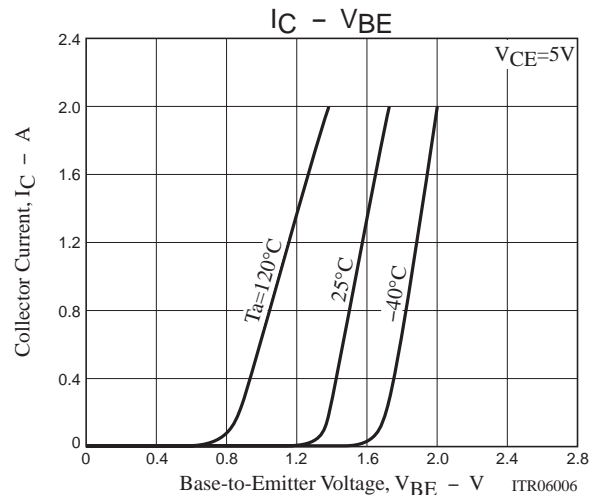
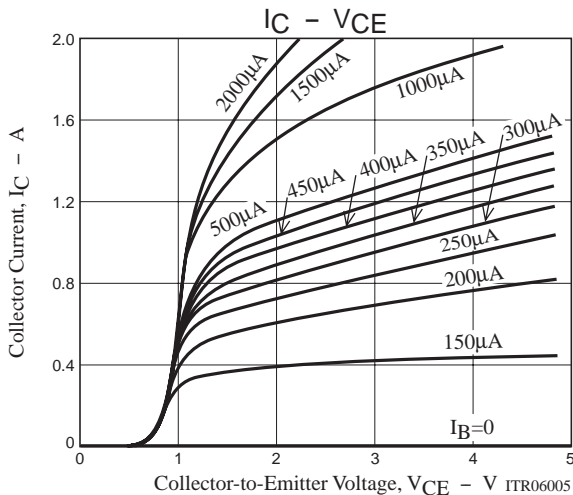
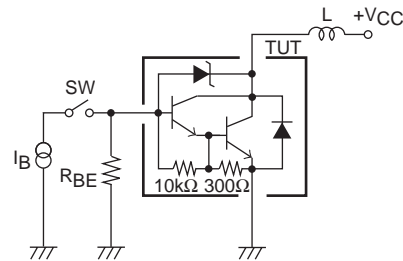
PW=50μs, Duty Cycle≤1%
I_{B1} = -I_{B2}=4mA

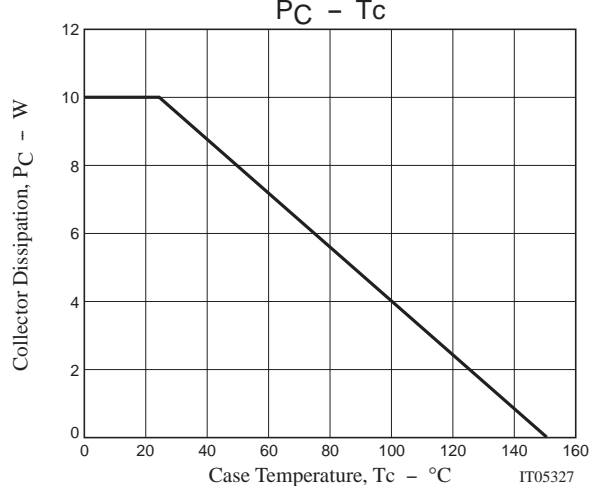
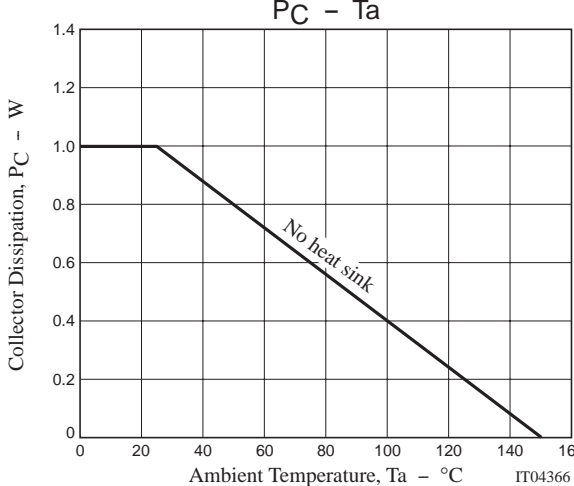
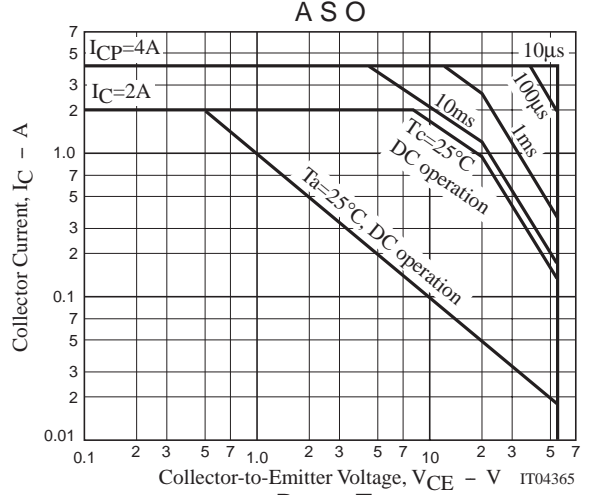
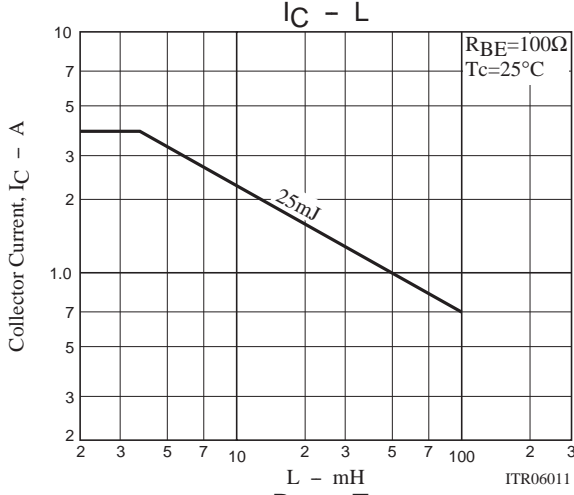
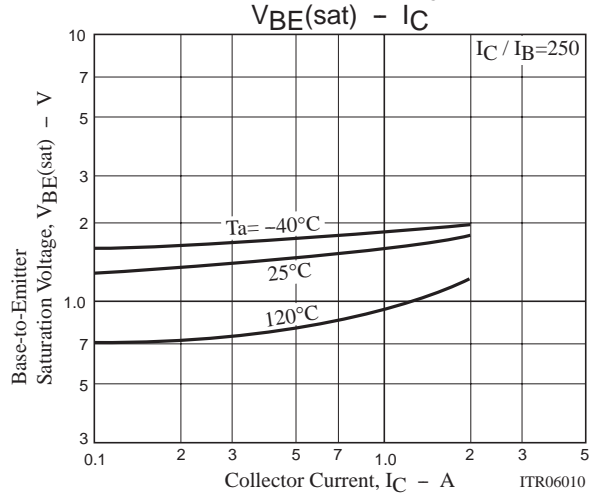
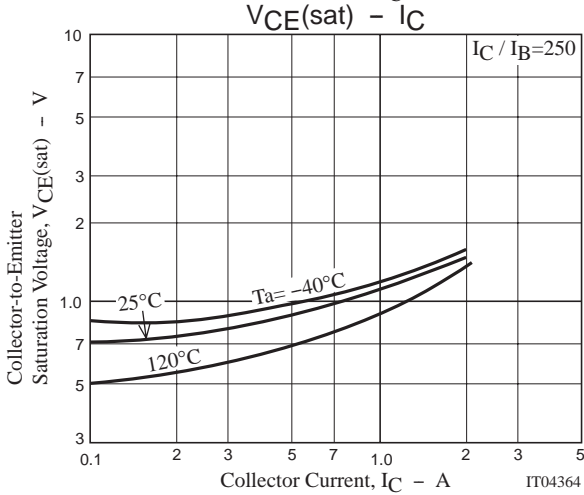
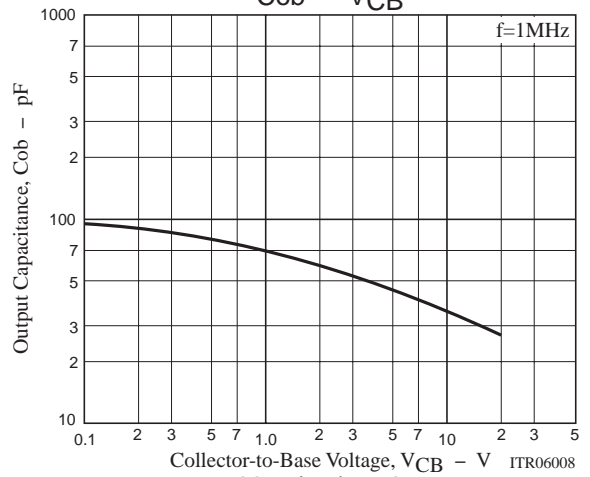
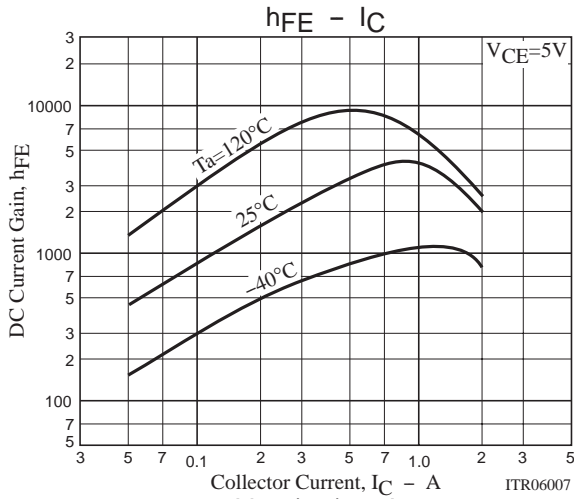


I_C=250A, I_{B1} = -250A, I_{B2}=1A

Es / b Test Circuit

V_{CC}=20V, R_{BE}=100Ω





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