NPN Triple Diffused Planar Silicon Transistor



2SC4769

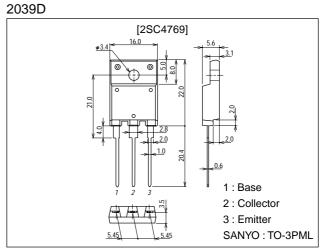
Ultrahigh-Definition Color Display Horizontal Deflection Output Applications

Features

- · High speed (t_f =100ns typ).
- \cdot High breakdown voltage (V_{CBO} = 1500 V).
- \cdot High reliability (Adoption of HVP process).
- \cdot Adoption of MBIT process.
- · On-chip damper diode.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	IC		7	A
Collector Current (Pulse)	I _{CP}		16	A
Collector Dissipation	PC		3	W
		Tc=25°C	60	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

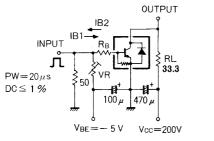
Parameter		mbol	Conditions									Unit				
		IIIDUI	Conditions								Γ	min	typ	max	Unit	
Collector Cutoff Current	IC	СВО	BO V _{CB} =800V, I _E =0								10	μA				
	IC	CES	V _{CE} =1500V, R _{BE} =0									1.0	mA			
Collector-to-Emitter Sastain Voltage	VCE	O(sus)	I _C =100mA, I _B =0								800			V		
Emitter Cutoff Current	IE	BO	V _{EB} =4V, I _C =0								40		130	mA		
Collector-to-Emitter Saturation Voltage	VCI	E(sat)	I _C =5A, I _B =1.7A										5	V		
Base-to-Emitter Saturation Voltage	VBI	E(sat)	I _C =5A, I _B =1.7A											1.5	V	
: The 2SC4769 is classified by 5A $h_{\mbox{\scriptsize FE}}$ as follows :		h	FE	3 to	5	4	to	6	5	to	8					
	Γ	Rank		1			2			3						

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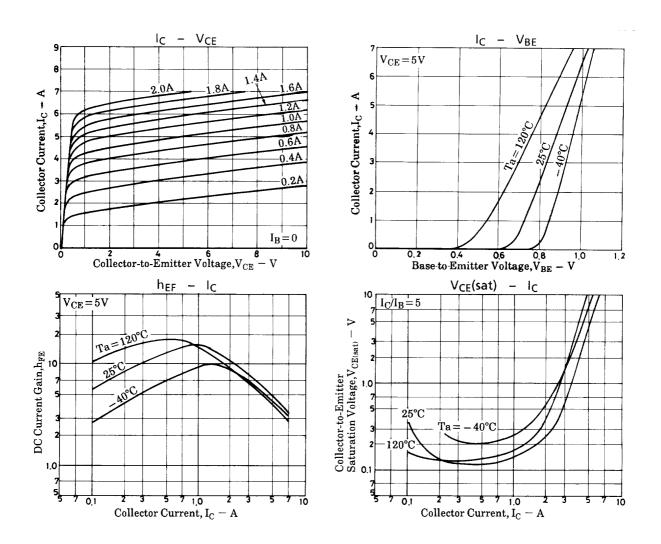
SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

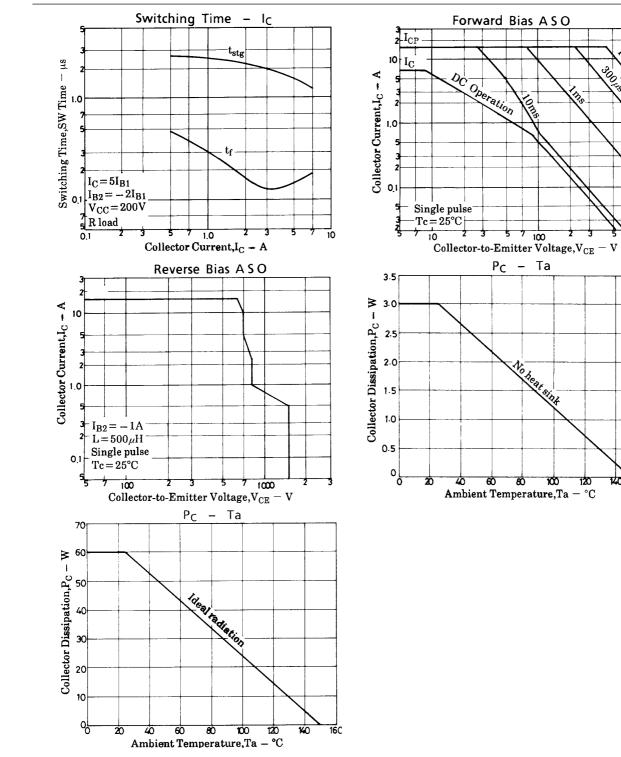
Parameter	Symbol	Conditions		Ratings			
	Gymbol	Conditions	min	typ	max	Unit	
DC Current Gain	hFE1	V _{CE} =5V, I _C =1A	8				
De cuiterit Gain	h _{FE} 2	V _{CE} =5V, I _C =5A	3.0*		8.0*		
Diode Forward Voltage	٧ _F	I _{EC} =7A			2.0	V	
Storage Time	^t stg	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A			3.0	μs	
Fall Time	t _f	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A		0.1	0.2	μs	

Switching Time Test Circuit



Unit (resistance: Ω , capacitance: F)





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Ins

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