

2SC4770

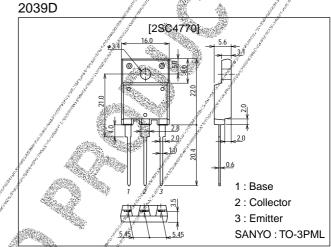
Ultrahigh-Definition Color Display Horizontal Deflection Output Applications

Features

- · High speed ($t_f=100$ ns typ).
- · High breakdown voltage (V_{CBO}=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Collector-to-Base Voltage	VCBO/	1500	V
Collector-to-Emitter Voltage	VCEO .	800	V
Emitter-to-Base Voltage	√VÉBO	6	V
Collector Current	/ lc	7	А
Collector Current (Pulse)	J CP	16	Α
Collector Dissipation	// RG	3	W
	Te⊋25°C	60	W
Junction Temperature		150	°C
Storage Temperature	Tstg	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter		Conditions		Unit		
Parameter	agyiiiboi /	Conditions		typ	max	Offic
Collector Cutoff Current	I _{CBØ}	V _{CB} =800V, I _E =0			10	μΑ
	I _{CES} /	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector-to-Emitter Sastain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	EBO	V _{EB} =4V, I _C =0			1.0	mA
Collector-to-Emitter Saturation Voltage	CE(sat)	I _C =5A, I _B =1.7A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =5A, I _B =1.7A			1.5	V

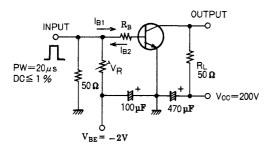
* : The 2SC4770 is classified by 5A h_{FE} as follows :

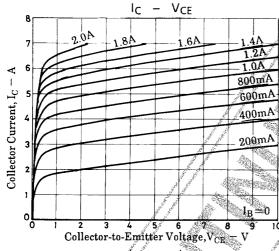
h _{FE}	3	to	5	4	to	6	5	to	8
Rank		1			2			3	

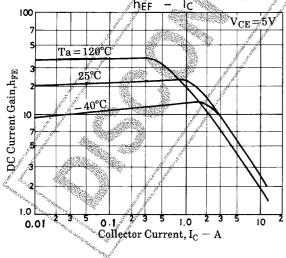
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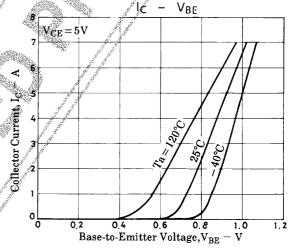
Parameter	Symbol	Conditions		Unit		
i arameter			min	typ	max	Offic
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1.0A	8			
Do Guireit Gain	h _{FE} 2	V _{CE} =5V, I _C =5A	3.0*		8.0*	
Storage Time	t _{stg}	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A	<i>(2</i> %).		3.0	μs
Fall Time	t _f	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A		0.1	0.2	μs

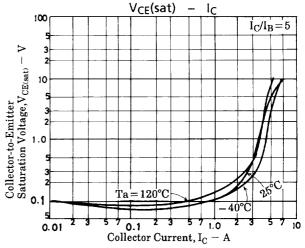
Switching Time Test Circuit

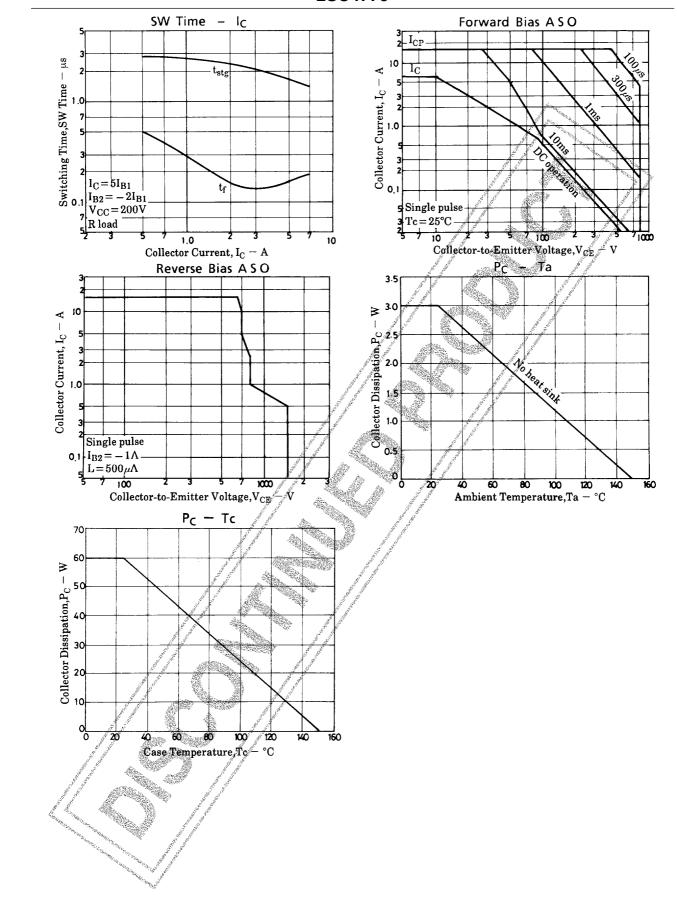


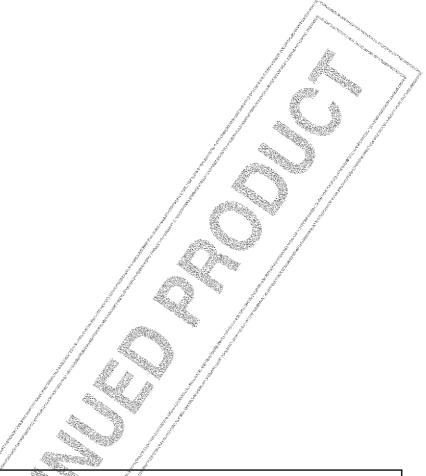












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