

## 2SC4769

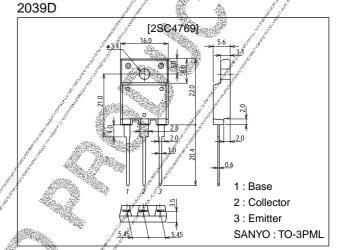
# Ultrahigh-Definition Color Display Horizontal Deflection Output Applications

#### **Features**

- · High speed ( $t_f=100$ ns typ).
- · High breakdown voltage (V<sub>CBO</sub>=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

## **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 <sub>CBO</sub> /	V <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
	IGES/	V <sub>CE</sub> =1500V, R <sub>BE</sub> =0			1.0	mA
Collector-to-Emitter Sastain Voltage	VCEO(sus)	I <sub>C</sub> =100mA, I <sub>B</sub> =0	800			V
Emitter Cutoff Current	EBO	V <sub>EB</sub> =4V, I <sub>C</sub> =0	40		130	mA
Collector-to-Emitter Saturation Voltage	<sup>®</sup> CE(sat)	I <sub>C</sub> =5A, I <sub>B</sub> =1.7A			5	V
Base-to-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =5A, I <sub>B</sub> =1.7A			1.5	V

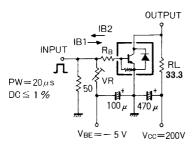
\* : The 2SC4769 is classified by 5A  $h_{FE}$  as follows :

h <sub>FE</sub>	3	to	5	4	to	6	5	to	8
Rank		1			2			3	

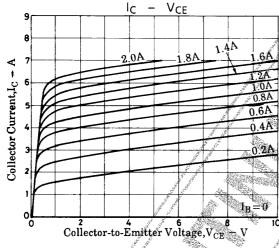
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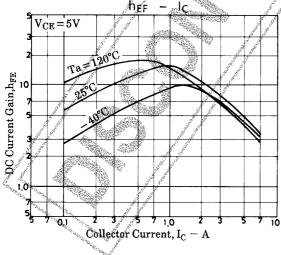
Parameter	Symbol	Conditions		Unit		
Farameter	Symbol		min	typ	max	Offic
DC Current Gain	h <sub>FE</sub> 1	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	8			
DC Current Gain	h <sub>FE</sub> 2	V <sub>CE</sub> =5V, I <sub>C</sub> =5A	3.0*		8.0*	
Diode Forward Voltage	V <sub>F</sub>	I <sub>EC</sub> =7A	dis.		2.0	V
Storage Time	t <sub>stg</sub>	I <sub>C</sub> =4A, I <sub>B1</sub> =0.8A, I <sub>B2</sub> =-1.6A		St. St.	3.0	μs
Fall Time	t <sub>f</sub>	I <sub>C</sub> =4A, I <sub>B1</sub> =0.8A, I <sub>B2</sub> =-1.6A	A A	0.1	0.2	μs

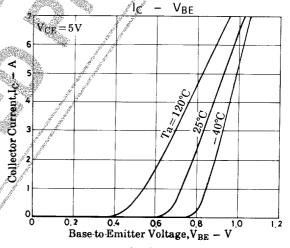
### **Switching Time Test Circuit**

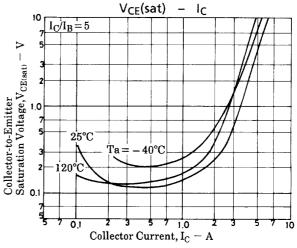


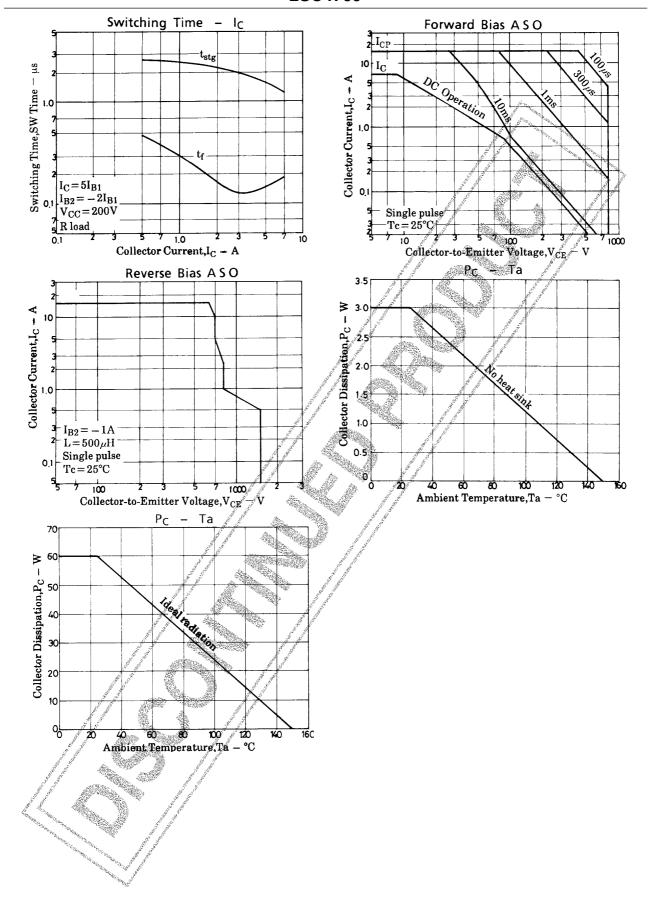
Unit (resistance:  $\Omega$ , capacitance: F)

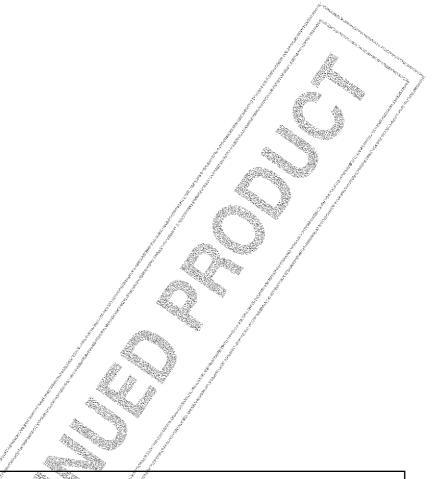












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