

2SC4884

High-Definition CRT Display Video Output Applications

Applications

- · High definition CRT display.
- · Especially suited for use in color TV chrome output and high breakdown voltage driver applications.

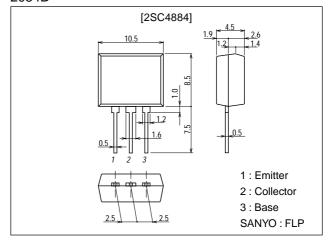
Features

- · Adoption of MBIT process.
- · Large allowable collector dissipation.
- · High breakdown voltage (V_{CEO}≥300V).
- \cdot Excellent high frequency characteristic (C_{re} =1.8pF typ).
- · Usage of radial taping to meet automatic mounting.

Package Dimensions

unit:mm

2084B



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		300	V
Collector-to-Emitter Voltage	VCEO		300	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	I _C		100	mA
Collector Current (Pulse)	I _{CP}		200	mA
Collector Dissipation	PC		1.5	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

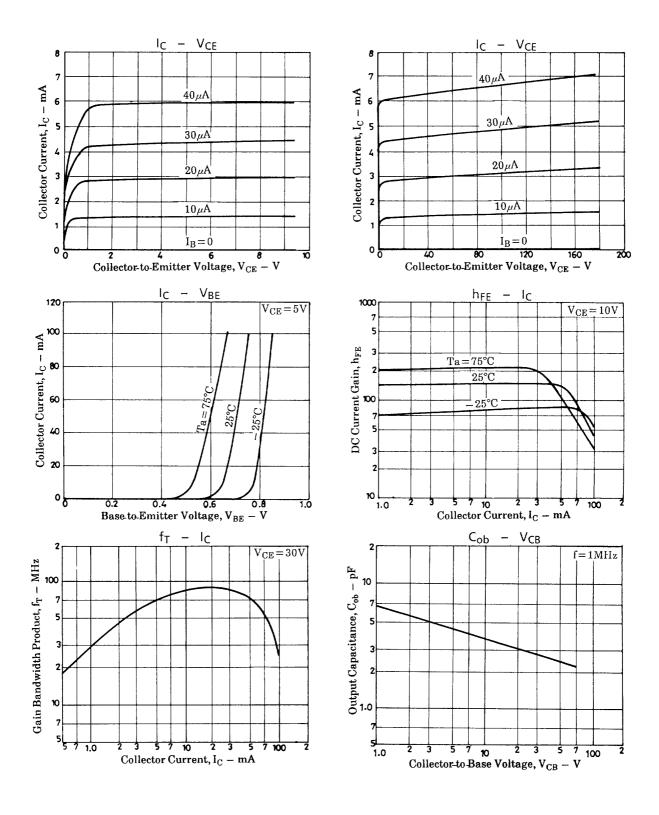
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =200V, I _E =0			0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			0.1	μA
DC Current Gain	h _{FE}	V _{CE} =10V, I _C =10mA	60*		320*	
Gain-Bandwidth Product	f _T	V _{CE} =30V, I _C =10mA		70		MHz
Output Capacitance	C _{ob}	V _{CB} =30V, f=1MHz		2.6		pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =30V, f=1MHz		1.8		pF

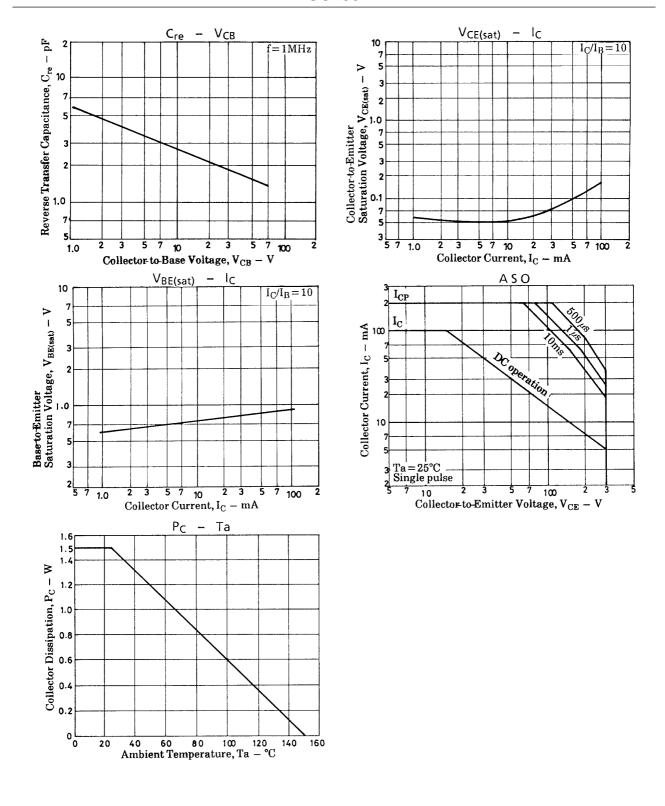
*: The 2SC4884 is classified by 10mA hFE as follows:

60 D 120 100 E 200 160 F 320

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oilit
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =20mA, I _B =2mA			0.6	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =20mA, I _B =2mA			1.0	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	$I_{C}=10\mu A, I_{E}=0$	300			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	300			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	5			V





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