2SC5884

Silicon NPN triple diffusion mesa type

Horizontal deflection output for TV

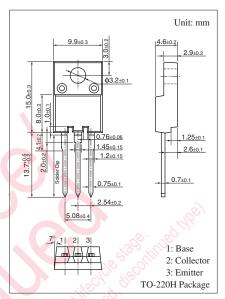
Features

- High breakdown voltage: $V_{CBO} \ge 1500 \text{ V}$
- Wide safe operation area
- Built-in dumper diode

Absolute Maximum Ratings $T_C = 25^{\circ}C$

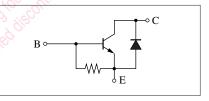
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	1 500	V	
Collector-emitter voltage (E-B short)	V _{CES}	1 500	V	
Emitter-base voltage (Collector open)	V _{EBO}	5	V	
Base current	IB	2	Α	
Collector current	I _C	4	A	
Peak collector current *	I _{CP}	6	A	
Collector power dissipation	P _C	30	W	
$T_a = 25^{\circ}C$		2		
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Note) *: Non-repetitive peak collector current



Marking Symbol: C5884

Internal Connection

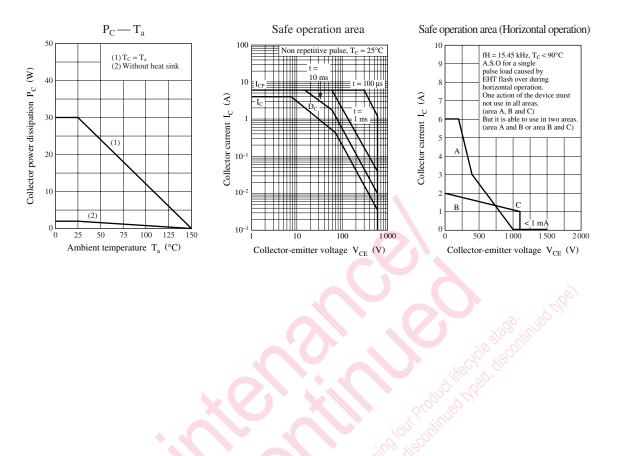


Electrical Characteristics $T_C = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 500 \text{ mA}, I_{\rm C} = 0$	5			V
Forward voltage	VF	$I_F = 2 A$			-2	V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 1000 \text{ V}, I_E = 0$			50	μΑ
	CON.	$V_{CB} = 1500 \text{ V}, I_E = 0$			1	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = 5 V, I_C = 2 A$	5		10	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = 2 A, I_{B} = 0.5 A$			2.5	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_{C} = 2 A, I_{B} = 0.5 A$			1.5	V
Transition frequency	f _T	$V_{CE} = 10 \text{ V}, I_C = 0.1 \text{ A}, f = 0.5 \text{ MHz}$		3		MHz
Storage time	t _{stg}	$I_C = 2$ A, Resistance loaded			5.0	μs
Fall time	t _f	$I_{B1} = 0.5 \text{ A}, I_{B2} = -1.0 \text{ A}$			0.5	μs

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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