

## 2SC4797

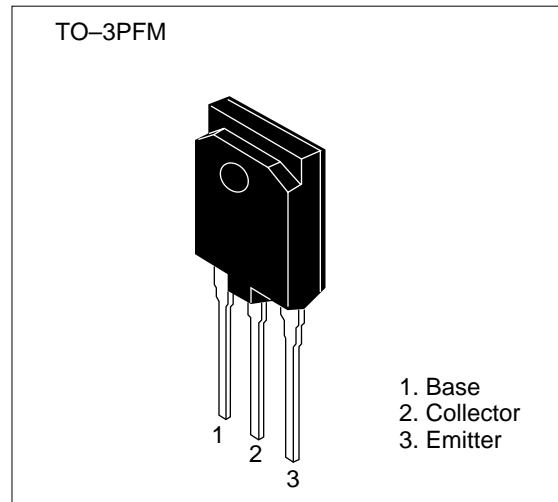
Silicon NPN Triple Diffused

### Application

TV / character display horizontal deflection output

### Features

- High speed switching  
 $t_f \leq 0.6 \mu s$
- High breakdown voltage  
 $V_{CBO} = 1700 V$
- Isolated package  
TO-3PFM



### Absolute Maximum Ratings ( $T_a = 25^\circ C$ )

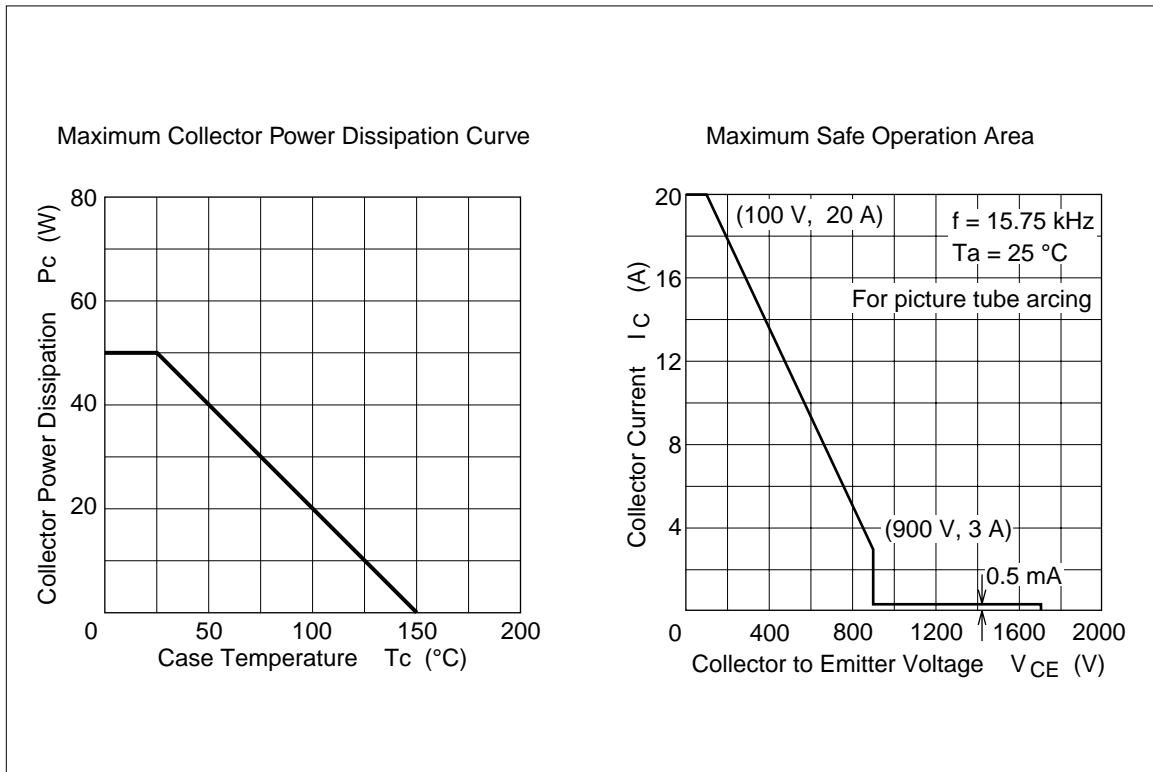
Item	Symbol	Rating	Unit
Collector to base voltage	$V_{CBO}$	1700	V
Collector to emitter voltage	$V_{CEO}$	900	V
Emitter to base voltage	$V_{EBO}$	6	V
Collector current	$I_C$	8	A
Collector surge current	$i_c(\text{surge})$	20	A
Collector power dissipation	$P_C^{*1}$	50	W
Junction temperature	$T_j$	150	$^\circ C$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ C$

Note: 1. Value at  $T_C = 25^\circ C$ .

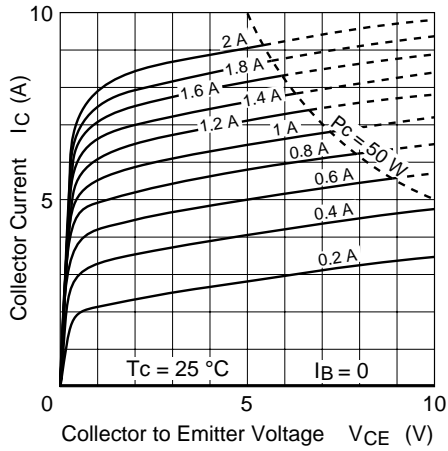
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### Electrical Characteristics (Ta = 25°C)

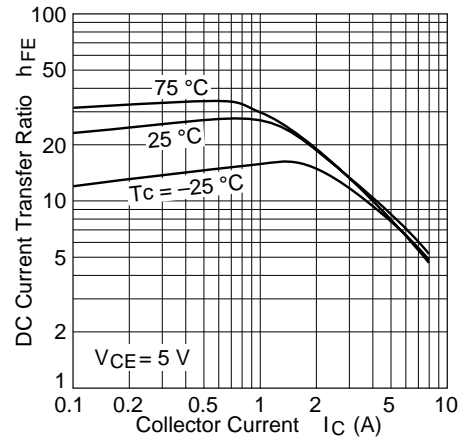
Item	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	900	—	—	V	$I_C = 10 \text{ mA}$ , $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	—	—	V	$I_E = 10 \text{ mA}$ , $I_C = 0$
Collector cutoff current	$I_{CES}$	—	—	500	$\mu\text{A}$	$V_{CE} = 1700 \text{ V}$ , $R_{BE} = 0$
DC current transfer ratio	$h_{FE}$	—	—	35		$V_{CE} = 5 \text{ V}$ , $I_C = 1 \text{ A}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	5	V	$I_C = 7 \text{ A}$ , $I_B = 1.4 \text{ A}$
Base to emitter saturation voltage	$V_{BE(sat)}$	—	—	1.5	V	$I_C = 7 \text{ A}$ , $I_B = 1.4 \text{ A}$
Fall time	$t_f$	—	—	0.6	$\mu\text{s}$	$I_{CP} = 7 \text{ A}$ , $I_{B1} = 1.4 \text{ A}$ $I_{B2} = -2.5 \text{ A}$ , $f_H = 31.5 \text{ kHz}$



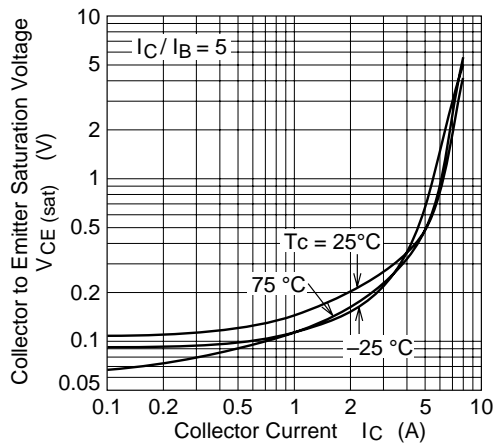
Typical Output Characteristics



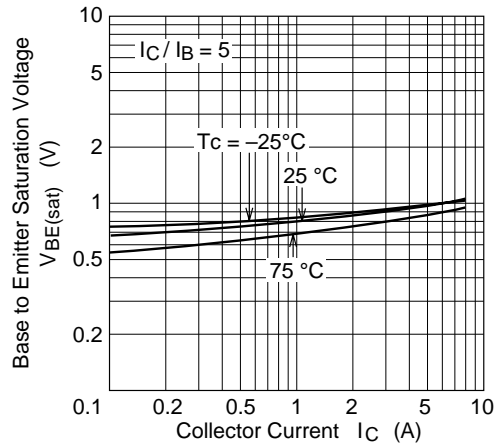
DC Current Transfer Ratio vs. Collector Current



Collector to Emitter Saturation Voltage vs. Collector Current



Base to Emitter Saturation Voltage vs. Collector Current



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