

2SC4692

**Silicon NPN Triple Diffused
EDTV/HDTV Horizontal Deflection output**

Feature

- High speed switching
0.5 μ s Max
- High breakdown voltage
 $V_{CBO} = 1500$ V
- Isolated package; TO-3PFM

Absolute Maximum Ratings (Ta = 25°C)

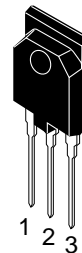
Item	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	1500	V
Collector to emitter voltage	V_{CEO}	800	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	I_C	12	A
Collector surge current	$i_{C(surge)}$	20	A
Collector power dissipation	P_C^{*1}	50	W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

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

Electrical Characteristics (Ta = 25°C)

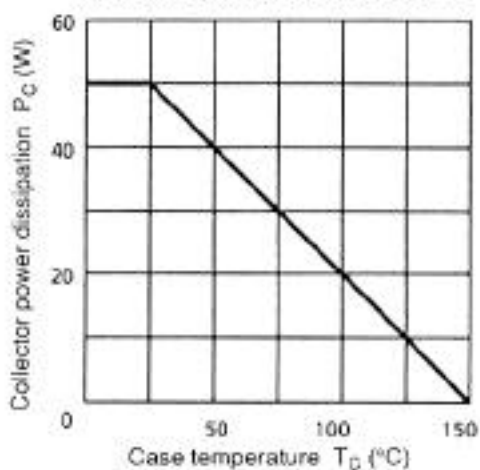
Item	Symbol	Min	Typ	Max	Unit	Test condition
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	800	—	—	V	$I_C = 10$ mA, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	—	—	V	$I_E = 10$ mA, $I_C = 0$
Collector cutoff current	I_{CES}	—	—	500	μ A	$V_{CE} = 1500$ V, $R_{BE} = 0$
DC current transfer ratio	h_{FE}	15	—	35		$V_{CE} = 5$ V, $I_C = 1$ A
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	5	V	$I_C = 10$ A, $I_B = 2$ A
Base to emitter saturation voltage	$V_{BE(sat)}$	—	—	1.5	V	$I_C = 10$ A, $I_B = 2$ A
Fall time	t_f	—	—	0.5	μ s	$I_{CP} = 8$ A, $I_{B1} = 1.4$ A, $I_{B2} = -2.5$ A

TO-3PFM

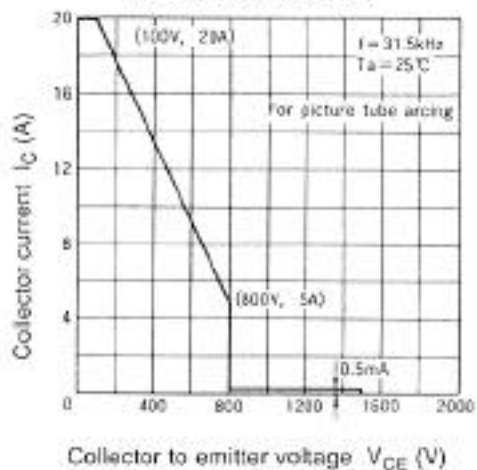


1. Base
2. Collector
3. Emitter

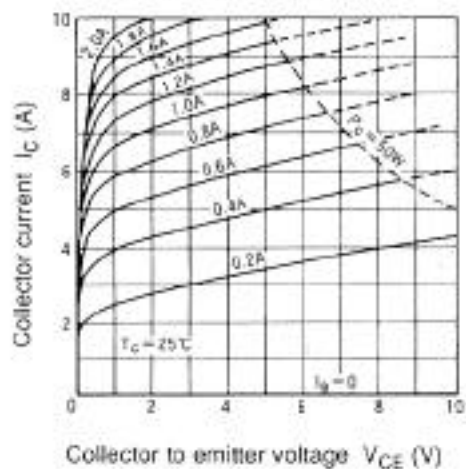
Maximum Collector Dissipation Curve



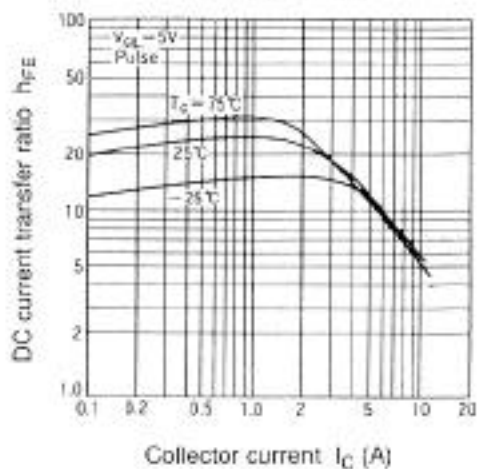
Area of Safe Operation



Typical Output Characteristics

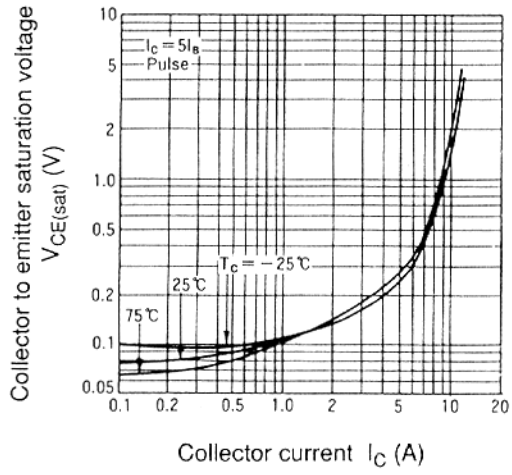


DC Current Transfer Ratio vs. Collector Current

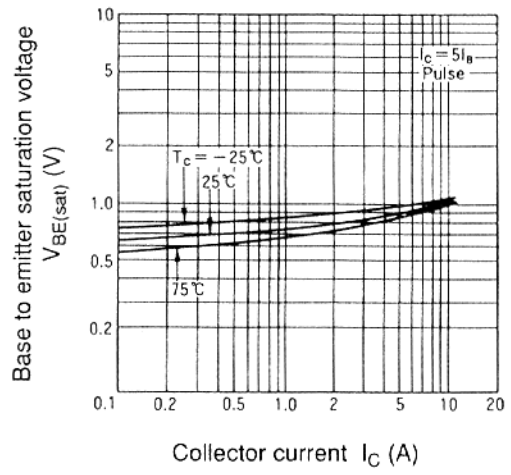


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Collector to Emitter Saturation Voltage vs. Collector Current



Base to Emitter Saturation Voltage vs. Collector Current



Collector to Emitter Saturation Voltage vs. Base Current

