### **HITACHI**

# 2SC4744

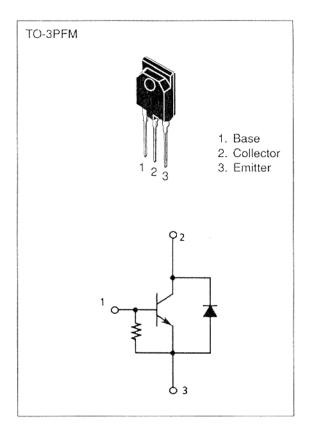
#### Silicon NPN Triple Diffused Character Display Horizontal Deflection Output

#### **Feature**

- High breakdown voltage V<sub>CES</sub> = 1500 V
- · Built-in dampen diode type
- · Isolated package; TO-3PFM

### **Absolute Maximum Ratings** (Ta = 25°C)

Item	Symbol	Rating	Unit
Collector to emitter voltage	$V_{CES}$	1500	٧
Emitter to base voltage	$V_{EBO}$	6	٧
Collector current	I <sub>C</sub>	6	Α
Collector peak current	i <sub>C(peak)</sub>	7	Α
Collector surge current	i <sub>C(surge)</sub>	16	Α
Collector power dissipation	P <sub>C</sub> *1	50	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
C to E diode forward current	ID	7	Α



Note: 1. Value at  $T_C = 25$ °C.

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

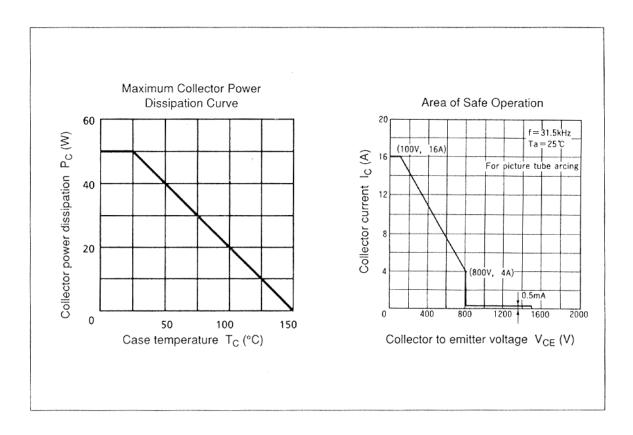
Item	Symbol	Min	Тур	Max	Unit	Test condition
Emitter to base breakdown voltage	V <sub>(BR)EBO</sub>	6			V	I <sub>E</sub> = 400 mA, I <sub>C</sub> = 0
Collector cutoff current	I <sub>CES</sub>		arment.	500	μΑ	V <sub>CE</sub> = 1500 V, R <sub>BE</sub> = 0
DC current transfer ratio	h <sub>FE</sub>	Adverte Control of Con	******	25		V <sub>CE</sub> = 5 V, I <sub>C</sub> = 1 A
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	NATIONAL PROPERTY AND ADDRESS OF THE PARTY AND	annua .	2.0	٧	I <sub>C</sub> = 5 A, I <sub>B</sub> = 1.25 A
Base to emitter saturation voltage	V <sub>BE(sat)</sub>			1.5	٧	I <sub>C</sub> = 5 A, I <sub>B</sub> = 1.25 A
C to E diode forward voltage	V <sub>ECF</sub>			2.0	V	I <sub>F</sub> = 6 A

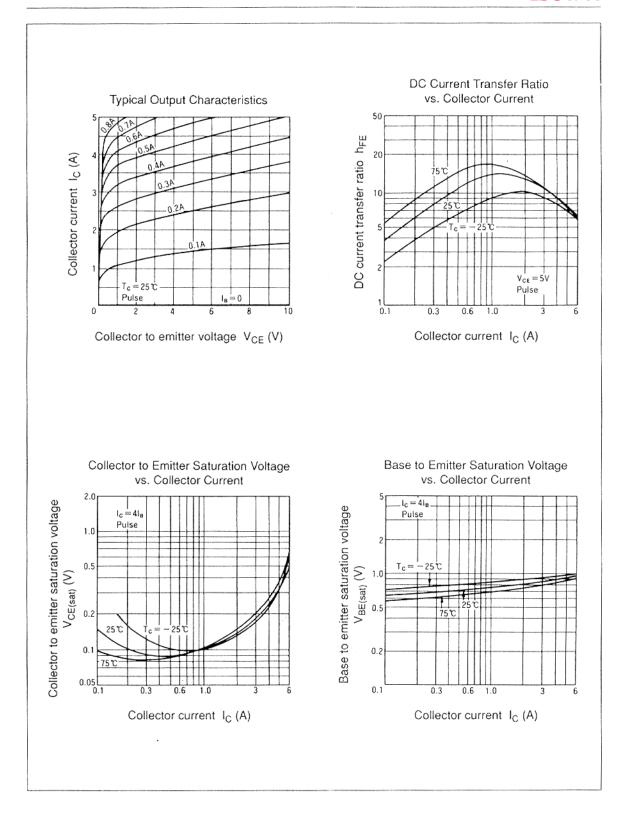
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Electrical Characteristics (Ta = 25°C) (cont)

Item	Symbol	Min	Тур	Max	Unit	Test condition
Fall time	t <sub>f</sub>			0.4	μs	I <sub>CP</sub> = 5 A, I <sub>B1</sub> = 1 A I <sub>B2</sub> = -2 A





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