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# 2SC4742

Silicon NPN Triple Diffused

# HITACHI

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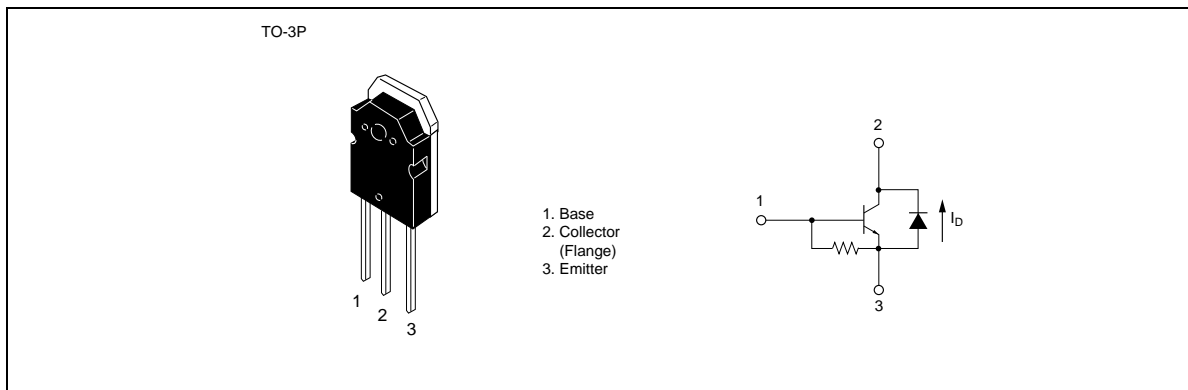
## Application

Character display horizontal deflection output

## Feature

- High breakdown voltage  
 $V_{CES} = 1500 \text{ V}$
- Built-in damper diode type

## Outline



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

Item	Symbol	Ratings	Unit
Collector to emitter voltage	$V_{CES}$	1500	V
Emitter to base voltage	$V_{EBO}$	6	V
Collector current	$I_C$	6	A
Collector peak current	$I_{C(peak)}$	7	A
Collector surge current	$I_{C(surge)}$	16	A
Collector power dissipation	$P_C^{*1}$	50	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
C to E diode forward current	$I_D$	7	A

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

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

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	—	—	V	$I_E = 400\text{ mA}$ , $I_C = 0$
Collector cutoff current	$I_{CES}$	—	—	500	$\mu\text{A}$	$V_{CE} = 1500\text{ V}$ , $R_{BE} = 0$
DC current transfer ratio	$h_{FE}$	—	—	25		$V_{CE} = 5\text{ V}$ , $I_C = 1\text{ A}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	2.0	V	$I_C = 5\text{ A}$ , $I_B = 1.25\text{ A}$
Base to emitter saturation voltage	$V_{BE(sat)}$	—	—	1.5	V	$I_C = 5\text{ A}$ , $I_B = 1.25\text{ A}$
C to E diode forward voltage	$V_{ECF}$	—	—	2.0	V	$I_F = 6\text{ A}$
Fall time	$t_f$	—	—	0.4	$\mu\text{s}$	$I_{CP} = 5\text{ A}$ , $I_{B1} = 1\text{ A}$ , $I_{B2} = -2\text{ A}$

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[www.DatasheetCatalog.com](http://www.DatasheetCatalog.com)

Datasheets for electronic components.