2SC4742

Silicon NPN Triple Diffused

HITACHI

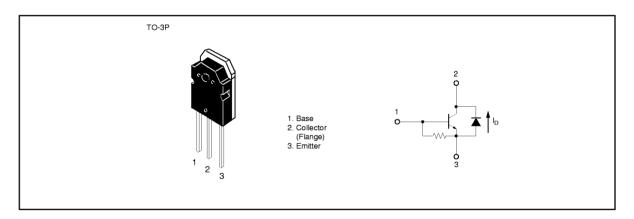
Application

Character display horizontal deflection output

Feature

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

Outline



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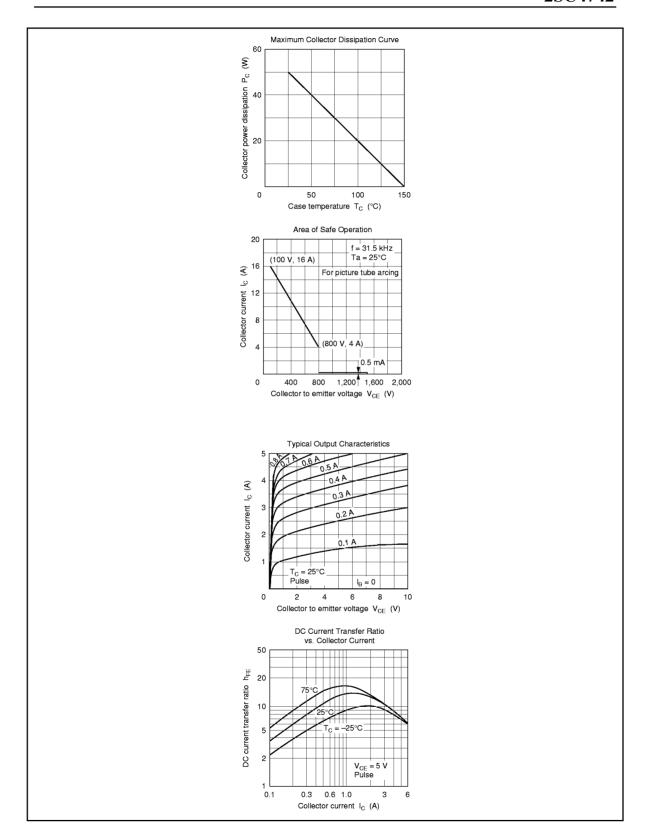
Absolute Maximum Ratings $(Ta = 25^{\circ}C)$

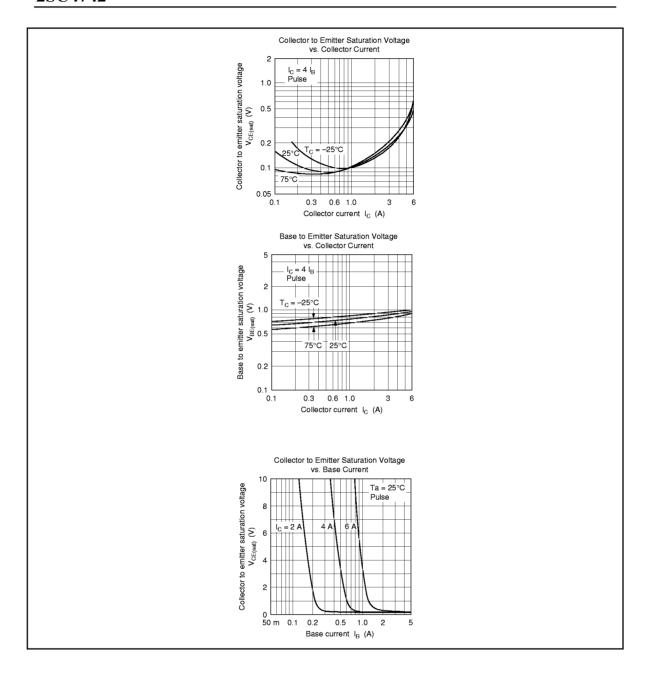
Item	Symbol	Ratings	Unit
Collector to emitter voltage	V _{CES}	1500	V
Emitter to base voltage	V _{EBO}	6	V
Collector current	I _c	6	Α
Collector peak current	C(peak)	7	A
Collector surge current	C(surge)	16	A
Collector power dissipation	P _c *1	50	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
C to E diode forward current	l _D	7	A

Note: 1. Value at T_c = 25°C.

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Emitter to base breakdown voltage	$V_{_{(BR)EBO}}$	6	_	_	V	$I_{\rm e} = 400$ mA, $I_{\rm c} = 0$
Collector cutoff current	I _{CES}	_	_	500	μA	$V_{ce} = 1500 \text{ V}, R_{BE} = 0$
DC current transfer ratio	h _{FE}	_	_	25		V _{CE} = 5 V, I _C = 1 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	$V_{\scriptscriptstyleECF}$	_	_	2.0	٧	I _F = 6 A
Fall time	t,	_	_	0.4	μs	$I_{CP} = 5 \text{ A}, I_{B1} = 1 \text{ A}, I_{B2} = -2 \text{ A}$





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