2SC4747

Silicon NPN Triple Diffused

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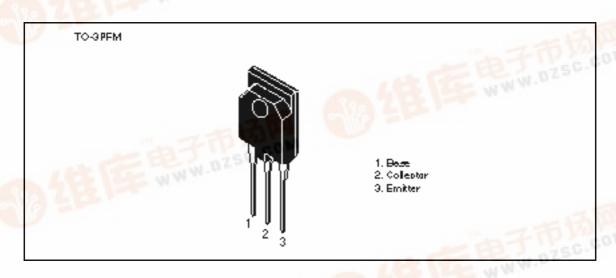
Application

Character display horizontal deflection output

Feature

- High breakdown voltage
 - $V_{CBO} = 1500 \text{ V}$
- High speed switching $t_{\rm f} = 0.3 \ \mu s$

Outline





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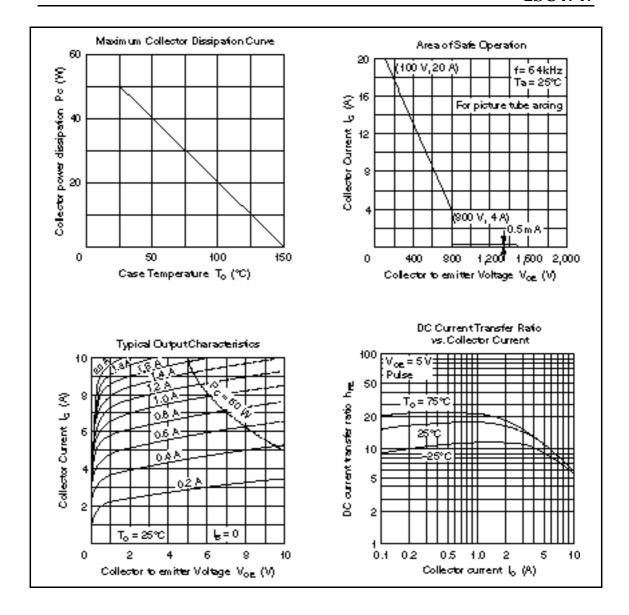
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	1500	V
Collector to emitter voltage	V _{CEO}	800	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	I _c	10	А
Collector surge current	I _{C(surge)}	20	A
Collector power dissipation	P _c *1	50	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

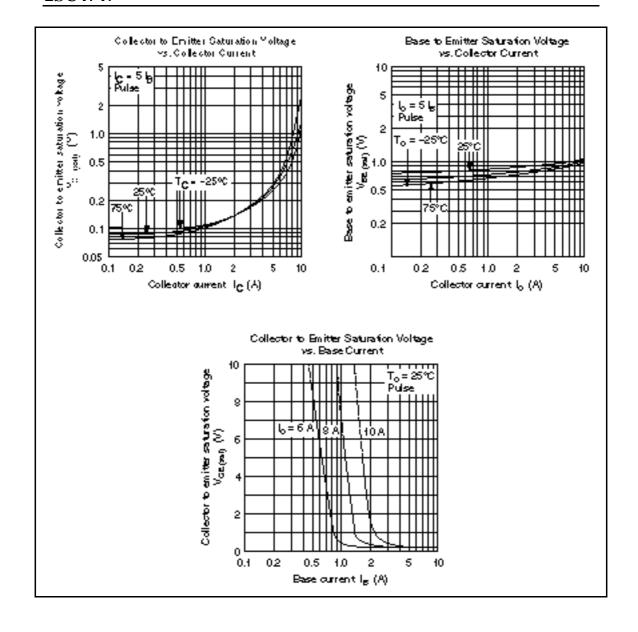
Note: 1. Value at $T_c = 25$ °C.

Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	800	_	_	V	$I_{\rm C}$ = 10 mA, $R_{\rm BE}$ =
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	_	_	V	$I_{E} = 10 \text{ mA}, I_{C} = 0$
Collector cutoff current	I _{CES}	_	_	500	μΑ	$V_{CE} = 1500 \text{ V}, R_{BE} = 0$
DC current transfer ratio	h _{FE}	_	_	30		$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ A}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	5	V	$I_{\rm C} = 8 \text{ A}, I_{\rm B} = 1.6 \text{ A}$
Base to emitter saturation voltage	$V_{BE(sat)}$	_	_	1.5	V	$I_{\rm C} = 8 \text{ A}, I_{\rm B} = 1.6 \text{ A}$
Fall time	t _f	_	_	0.3	μs	$I_{CP} = 7 \text{ A}, I_{B1} = 1.4 \text{ A}$



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