2SC4746

Silicon NPN Triple Diffused

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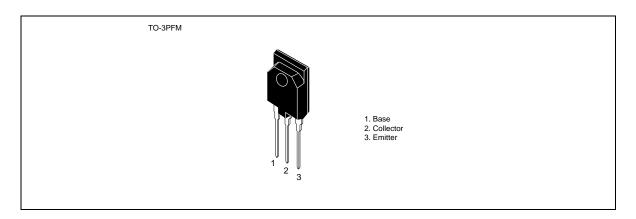
Application

CTV/character display horizontal deflection output

Feature

• High breakdown voltage $V_{\text{CBO}} = 1500 \text{ V}$

Outline



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

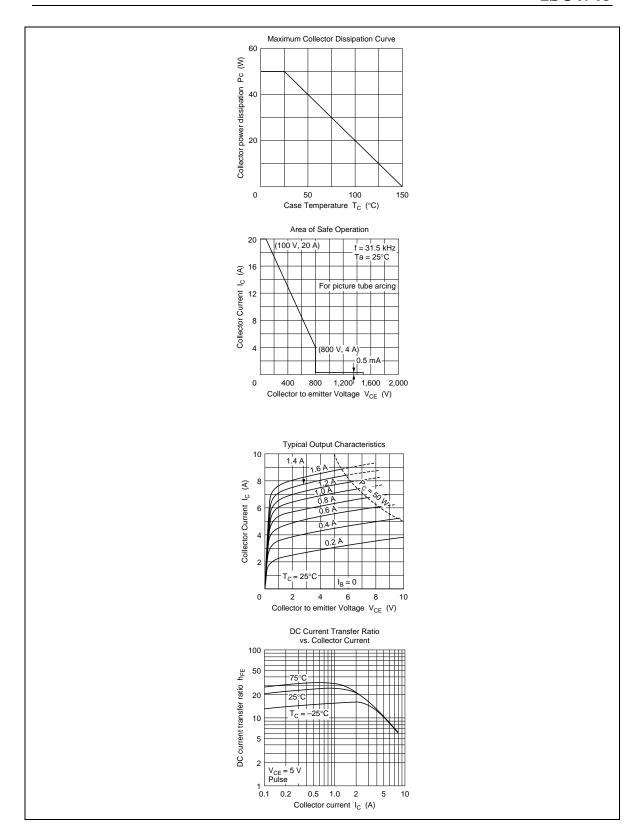
Item	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	1500	V	
Collector to emitter voltage	V _{CEO}	800	V	
Emitter to base voltage	$V_{\scriptscriptstyle{EBO}}$	6	V	
Collector current	I _c	8	А	
Collector surge current	l _{C(surge)}	20	А	
Collector power dissipation	P _c *1	50	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

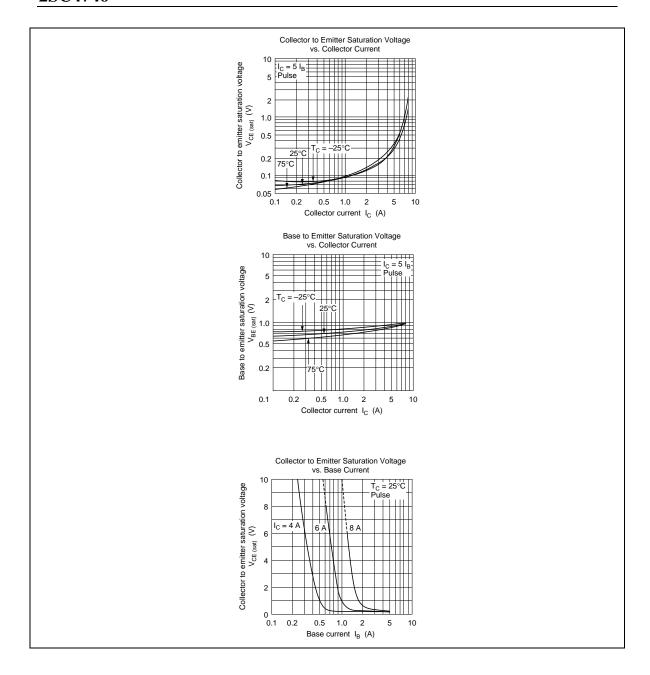
Note: 1. Value at $T_c = 25$ °C.

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

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{\text{(BR)CEO}}$	800	_	_	V	$I_{c} = 10 \text{ mA}, R_{BE} = _{-}$
Emitter to base breakdown voltage	$V_{\text{(BR)EBO}}$	6	_	_	V	$I_{\rm E} = 10$ 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}	8	_	38		$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ A}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	5	V	$I_{c} = 7 \text{ A}, I_{B} = 1.4 \text{ A}$
Base to emitter saturation voltage	$V_{\scriptscriptstyle{BE(sat)}}$	_	_	1.5	V	$I_{c} = 7 \text{ A}, I_{B} = 1.4 \text{ A}$
Fall time	t,	_	_	0.5	μs	I _{CP} = 7 A, I _{B1} = 1.4 A

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