2SC5470

Silicon NPN Triple Diffused Character Display Horizntal Deflection Output

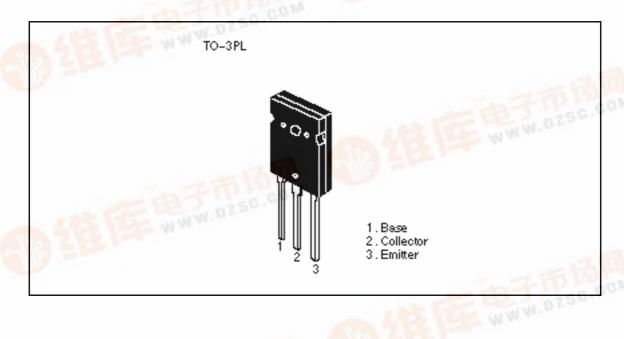
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3rd. Edition December 1997 Target Specification

Features

- High breakdown voltage $V_{CBO} = 1500 \text{ V}$
- High speed switching $t_f = 0.15 \; \mu sec \; (typ.) \; \; at \; f_H = 64 kHz$

Outline





2SC5470

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

Item	Symbol	Ratings	Unit ∨	
Collector to base voltage	$V_{\scriptscriptstyle \sf CBO}$	1500		
Collector to emitter voltage	V _{CEO}	700	V	
Emitter to base voltage	V_{EBO}	6	V	
Collector current	I _c	20	Α	
Collector peak current	i _{c(peak)}	40	Α	
Collector power dissipation	P _C ^{Note1}	150	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

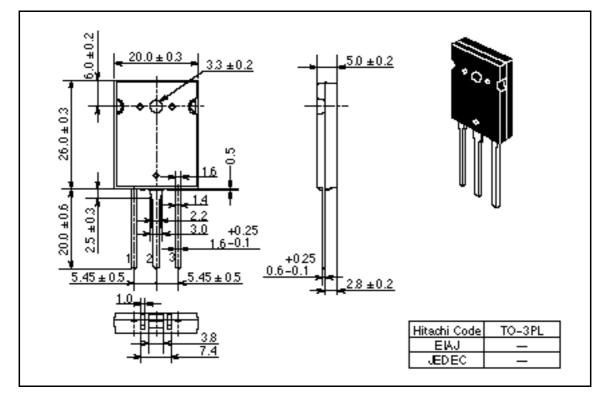
Note: 1. Value at Tc = 25°C

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

Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	700	_	_	V	$I_{C} = 10$ mA, $R_{BE} =$
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	$V_{CE} = 1500V, R_{BE} = 0$
DC current transfer ratio	h _{FE1}	10	_	40		$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{A}$
DC current transfer ratio	h _{FE2}	3.5	_	6.5		$V_{CE} = 5 \text{ V}, I_{C} = 10 \text{A}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	5	V	$I_C = 12A, I_B = 4A$
Base to emitter saturation voltage	$V_{BE(sat)}$	_	_	1.5	V	$I_C = 12A, I_B = 4A$
Fall time	t _f	_	0.2	0.4	μs	$I_{CP} = 8A, I_{B1} = 3A$ $f_{H} = 31.5kHz$
Fall time	t _f		0.15	_	μs	$I_{CP} = 8A$, $I_{B1} = 2A$ $f_{H} = 64kHz$

Package Dimensions

Unit: mm



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