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Renesas Technology Corp. Customer Support Dept. April 1, 2003



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2SC4913

Silicon NPN Triple Diffused



ADE-208-895 (Z) 1st. Edition September 2000

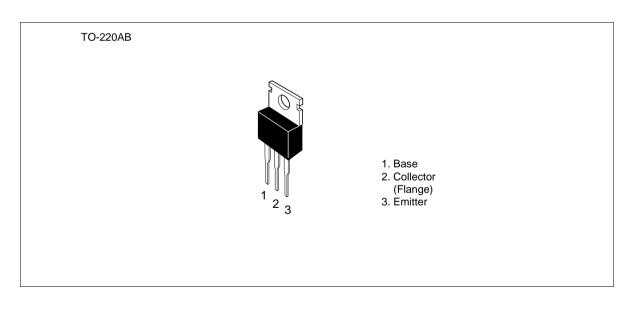
Application

High voltage amplifier

Features

- High breakdown voltage
- $V_{(BR)CEO} = 2000 \text{ V min}$

Outline



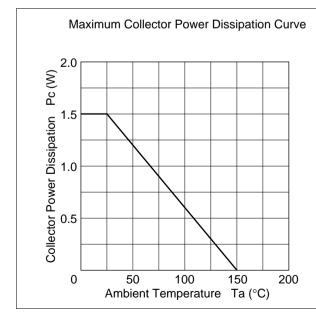
2SC4913

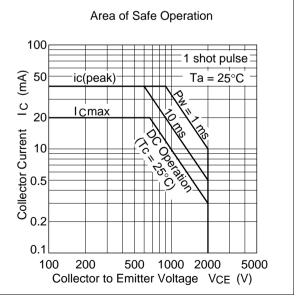
Absolute Maximum Ratings (Ta = 25°C)

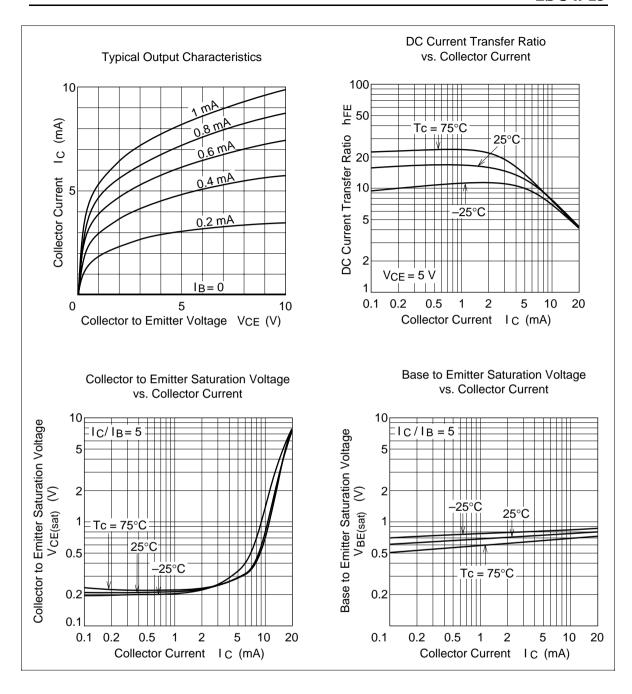
Symbol	Ratings	Unit
V_{CBO}	2000	V
V _{CEO}	2000	V
$V_{\scriptscriptstyle{EBO}}$	6	V
I _c	20	mA
I _{C(peak)}	40	mA
P _c	1.5	W
Tj	150	°C
Tstg	-55 to +150	°C
	V_{CBO} V_{CEO} V_{EBO} I_{C} $I_{C(peak)}$ P_{C} T_{j}	V _{CBO} 2000 V _{CEO} 2000 V _{EBO} 6 I _C 20 I _{C(peak)} 40 P _C 1.5 Tj 150

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

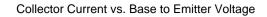
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector cutoff current	I _{CES}	_	_	500	μΑ	$V_{CE} = 2000 \text{ V}, R_{BE} = 0$
Collector cutoff current	I _{CEO}	_	_	5	mA	V _{CE} = 2000 V, R _{BE} = ∞
Emitter cutoff current	I _{EBO}	_	_	500	μΑ	$V_{EB} = 6 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE}	10	_	_		$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	5.0	V	$I_C = 10 \text{ mA}, I_B = 2 \text{ mA}$

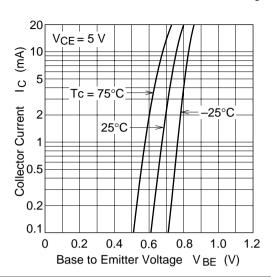






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