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2SC5273

Silicon NPN Triple Diffused



ADE-208-897 (Z) 1st. Edition September 2000

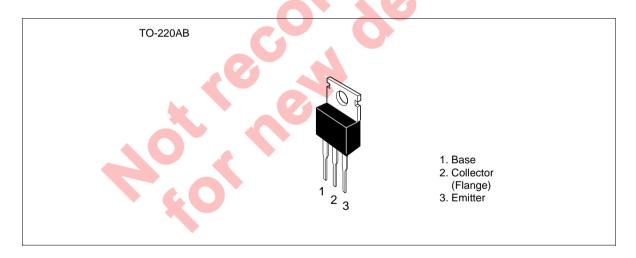
Application

High voltage amplifier

Features

• High brakedown voltage $V_{(BR)CEO} = 1300 \text{ V min}$

Outline



2SC5273

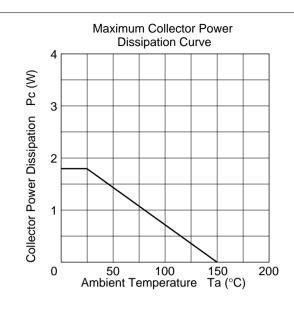
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

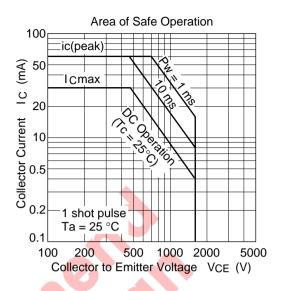
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	1300	V
Collector to emitter voltage	V_{CEO}	1300	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	I _c	30	mA
Collector peak current	I _{C(peak)}	60	mA
Collector power dissipation	P _c	1.8	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

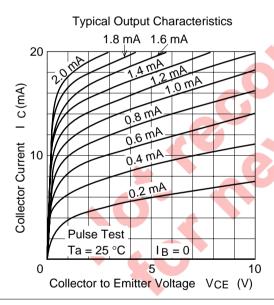
Electrical Characteristics ($Ta = 25^{\circ}C$)

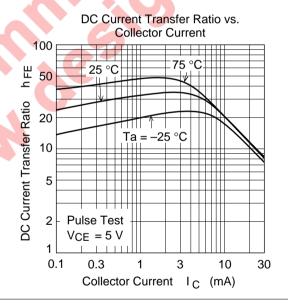
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector cutoff current	I _{CES}	_		10	μΑ	$V_{CE} = 1300 \text{ V}, R_{BE} = 0$
Collector cutoff current	I _{CEO}	_	4	100	μA	V _{CE} = 1300 V, R _{BE} =
Emitter cutoff current	I _{EBO}	-	-	10	μA	$V_{EB} = 6 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE}	10) _			$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ mA}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	U	_	5.0	V	$I_{\rm C}$ = 10 mA, $I_{\rm B}$ = 2 mA
Gain bandwidth product	f _T	_	5.5	_	MHz	$V_{CE} = 20 \text{ V}, I_{C} = 1 \text{ mA}$
Collector output capacitance	Cob	- (3.4	_	pF	$V_{CB} = 100 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$

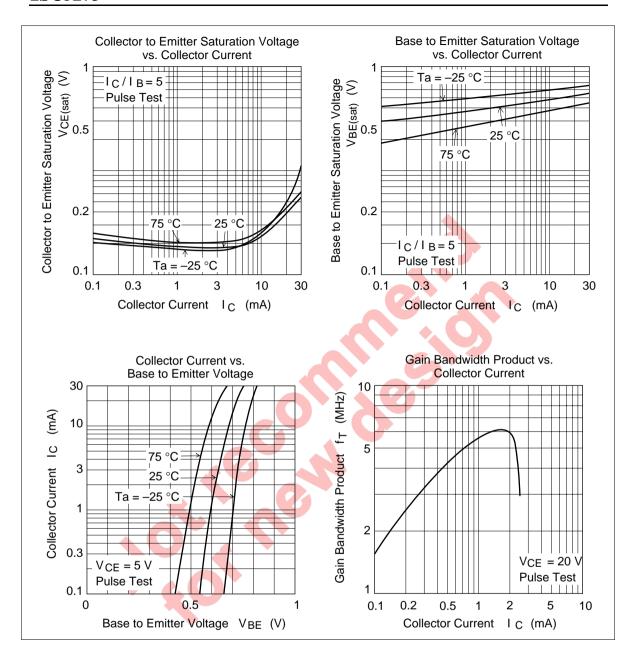


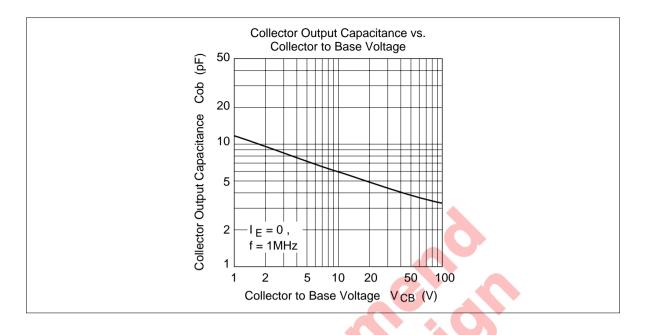












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