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



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2SC5022

Silicon NPN Triple Diffused



ADE-208-896 (Z) 1st. Edition September 2000

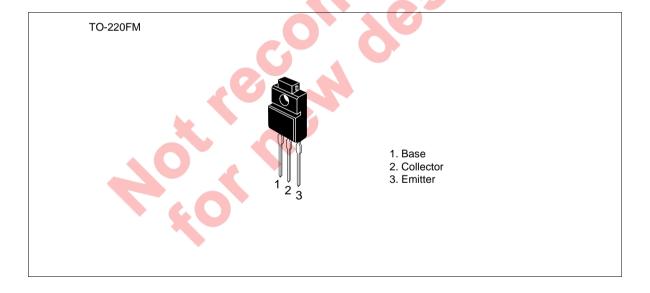
Application

High voltage amplifier

Features

• High breakdown voltage $V_{(BR)CEO} = 1500 \text{ V Min}$

Outline



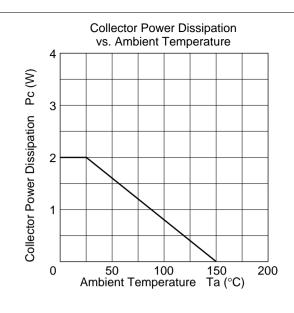
2SC5022

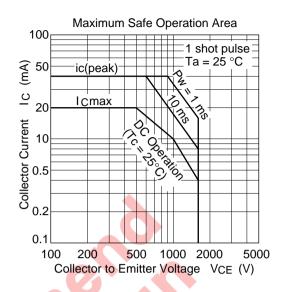
Absolute Maximum Ratings (Ta = 25°C)

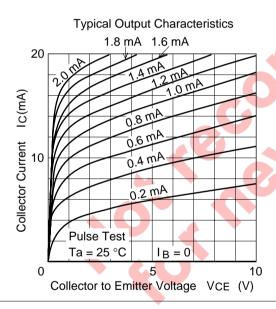
Item	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	1500	V	
Collector to emitter voltage	V_{CEO}	V _{CEO} 1500		
Emitter to base voltage	V_{EBO}	6	V	
Collector current	I _c	20	mA	
Collector peak current	C (peak)	40	mA	
Collector power dissipation	P _c	2	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

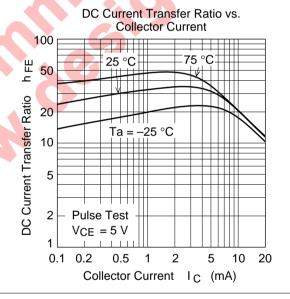
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector cutoff current	I _{CES}	_	-	10	μΑ	$V_{CE} = 1500 \text{ V}, R_{BE} = 0$
Collector cutoff current	I _{CEO}	_	4	100	μA	V _{CE} = 1500 V, R _{BE} =
Emitter cutoff current	I _{EBO}	-	7	10	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		5.0	V	$I_C = 10 \text{ mA}, I_B = 2 \text{ mA}$

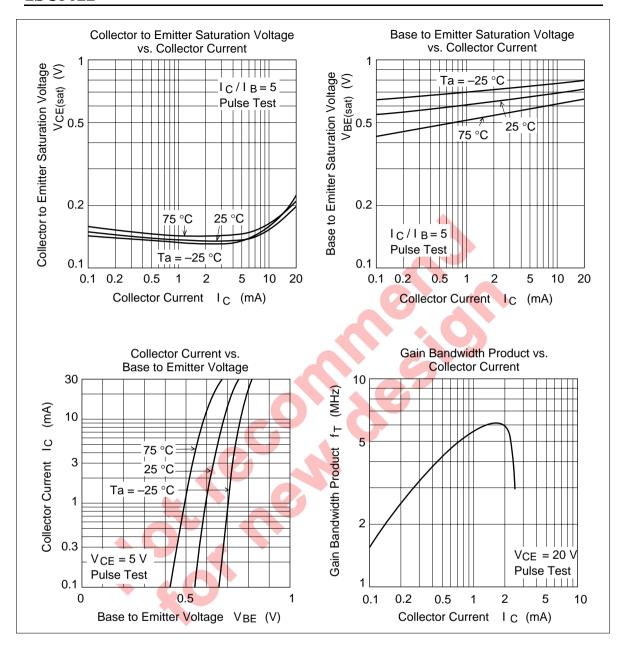


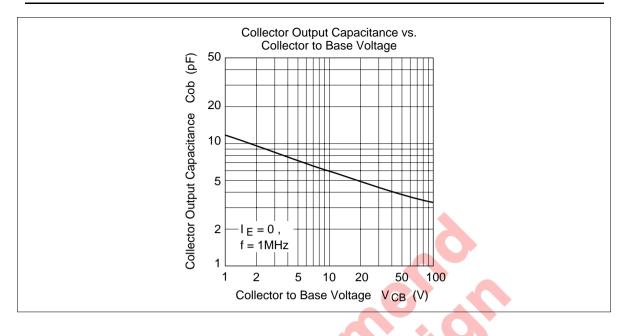






2SC5022





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