2SC5022

Silicon NPN Triple Diffused

HITACHI

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

Application

High voltage amplifier

Features

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

Outline

TO-220FM



- 1. Base
- 2. Collector
- 3. Emitter



2SC5022

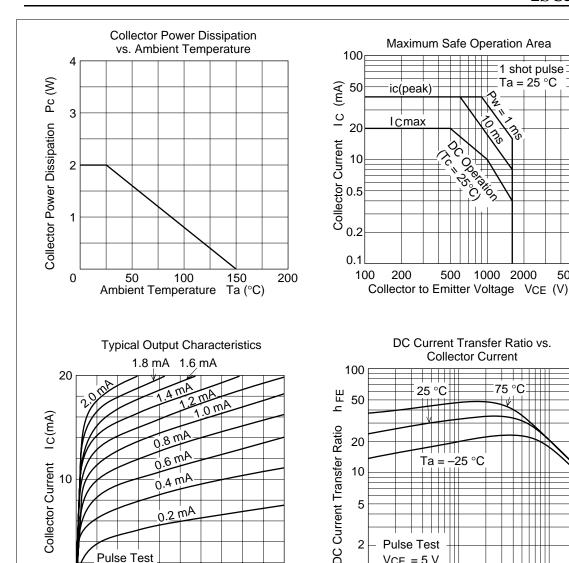
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	1500	V
Collector to emitter voltage	V_{CEO}	1500	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	I _c	20	mA
Collector peak current	I _{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}	_	_	100	μΑ	$V_{CE} = 1500 \text{ V}, R_{BE} = \infty$
Emitter cutoff current	I _{EBO}	_	_	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)}	_	_	5.0	V	$I_{\rm C}$ = 10 mA, $I_{\rm B}$ = 2 mA

5000



0

0

0.2 mA

5

Collector to Emitter Voltage VCE (V)

IB = 0

Pulse Test

Ta = 25 °C

5

2

1

10

0.1 0.2

Pulse Test

VCE = 5 V

0.5

Collector Current

1

2

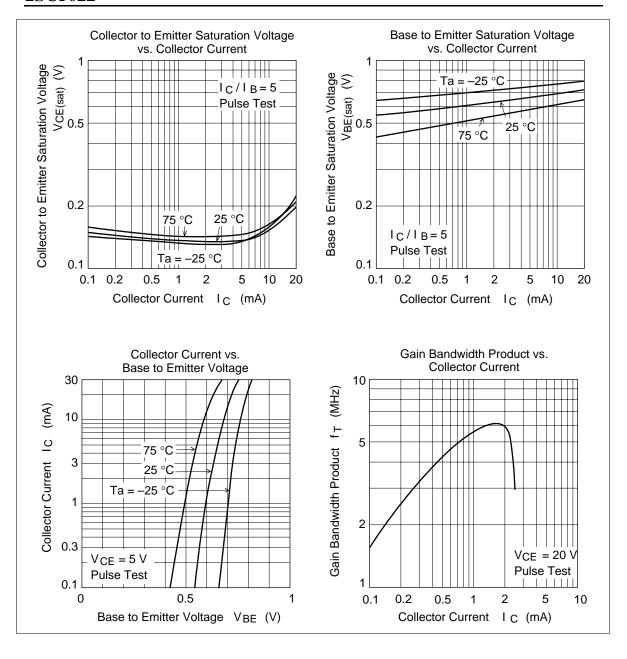
ΙC

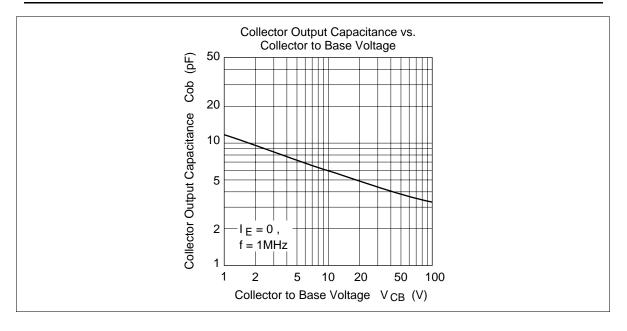
5

(mA)

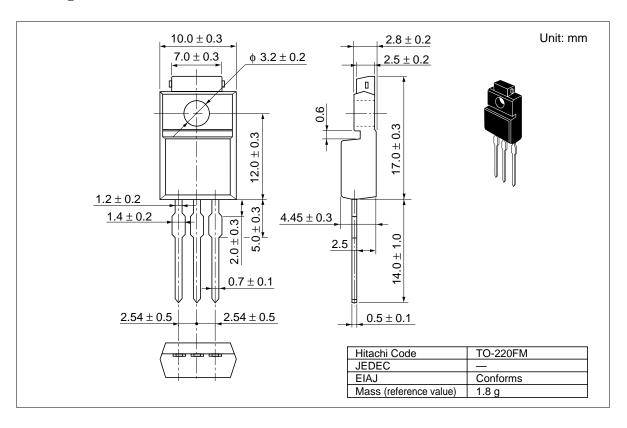
20

10





Package Dimensions



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