

## 2SC5022

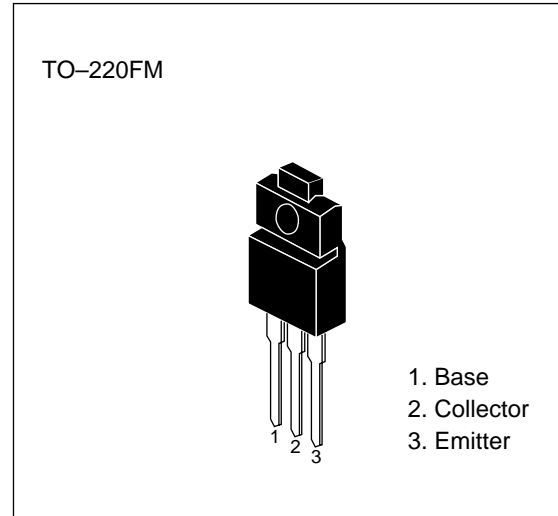
Silicon NPN Triple difused

### Application

High voltage amplifier

### Features

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



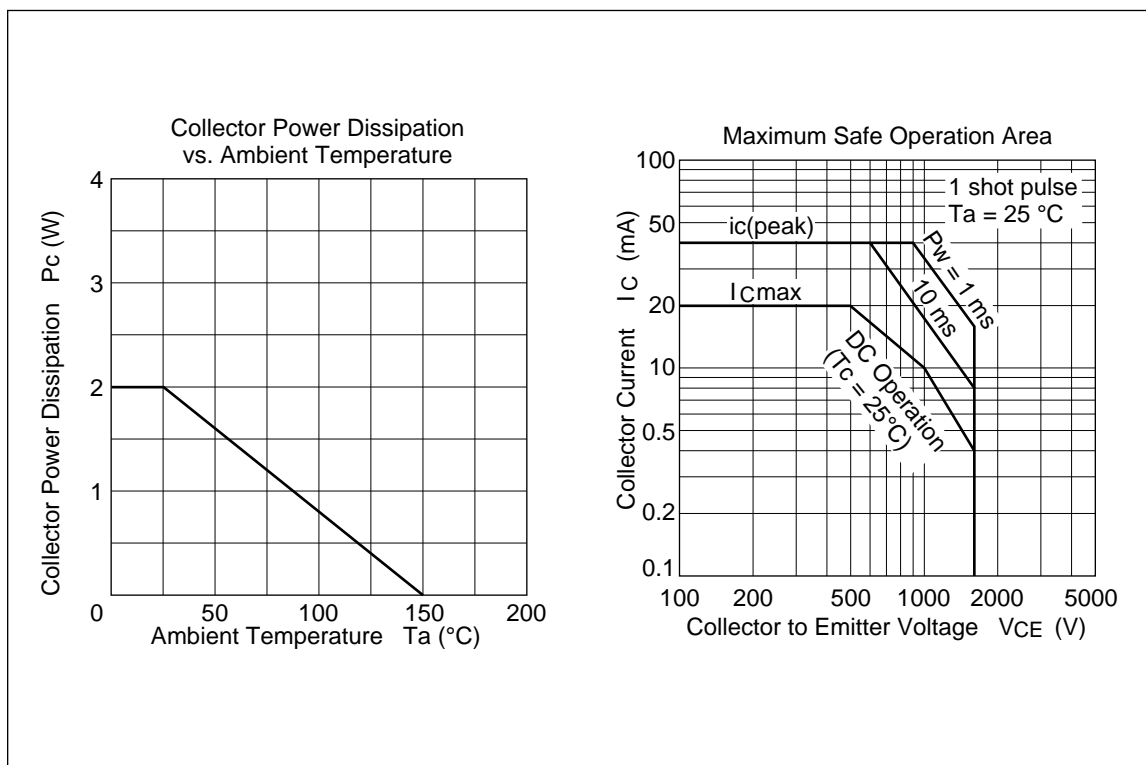
### Absolute Maximum Ratings (Ta = 25°C)

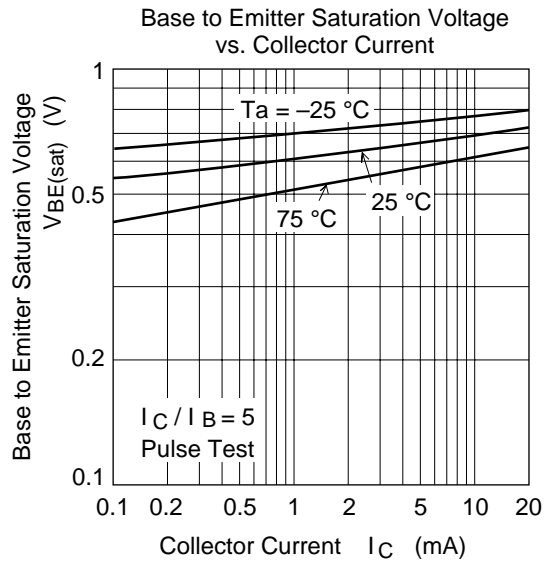
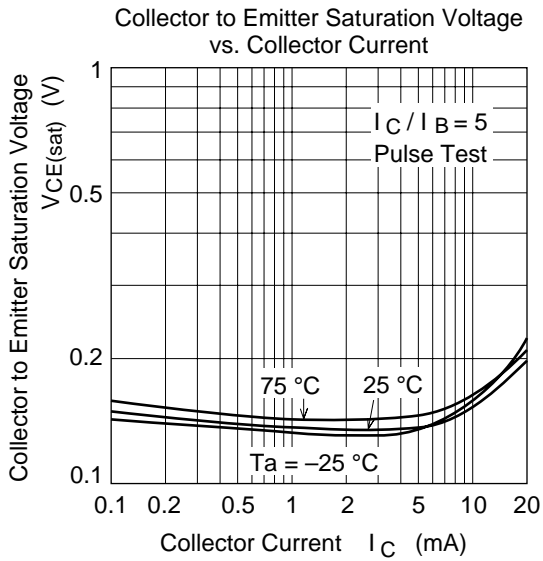
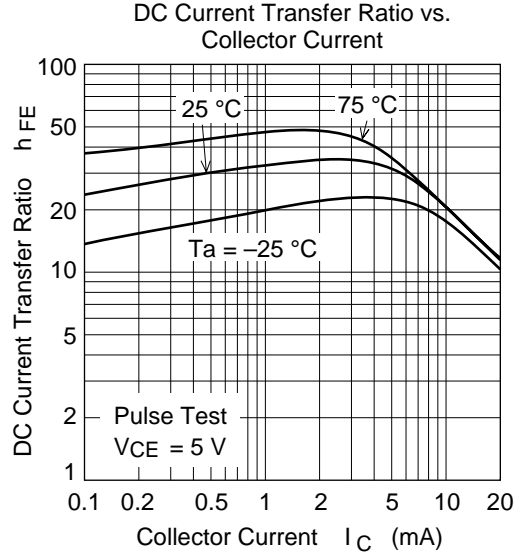
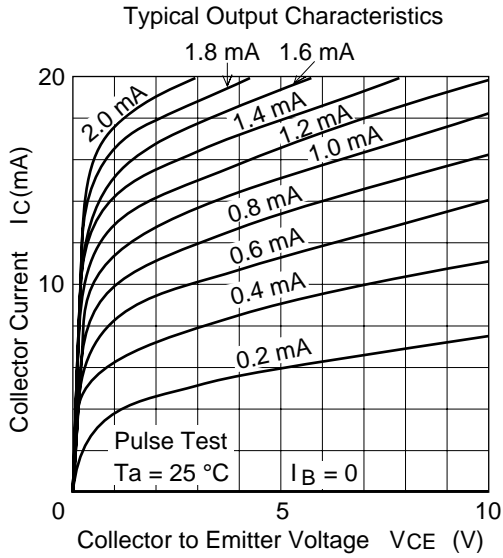
Item	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	1500	V
Collector to emitter voltage	$V_{CEO}$	1500	V
Emitter to base voltage	$V_{EBO}$	6	V
Collector current	$I_C$	20	mA
Collector peak current	$i_c$ (peak)	40	mA
Collector power dissipation	$P_C$	2	W
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

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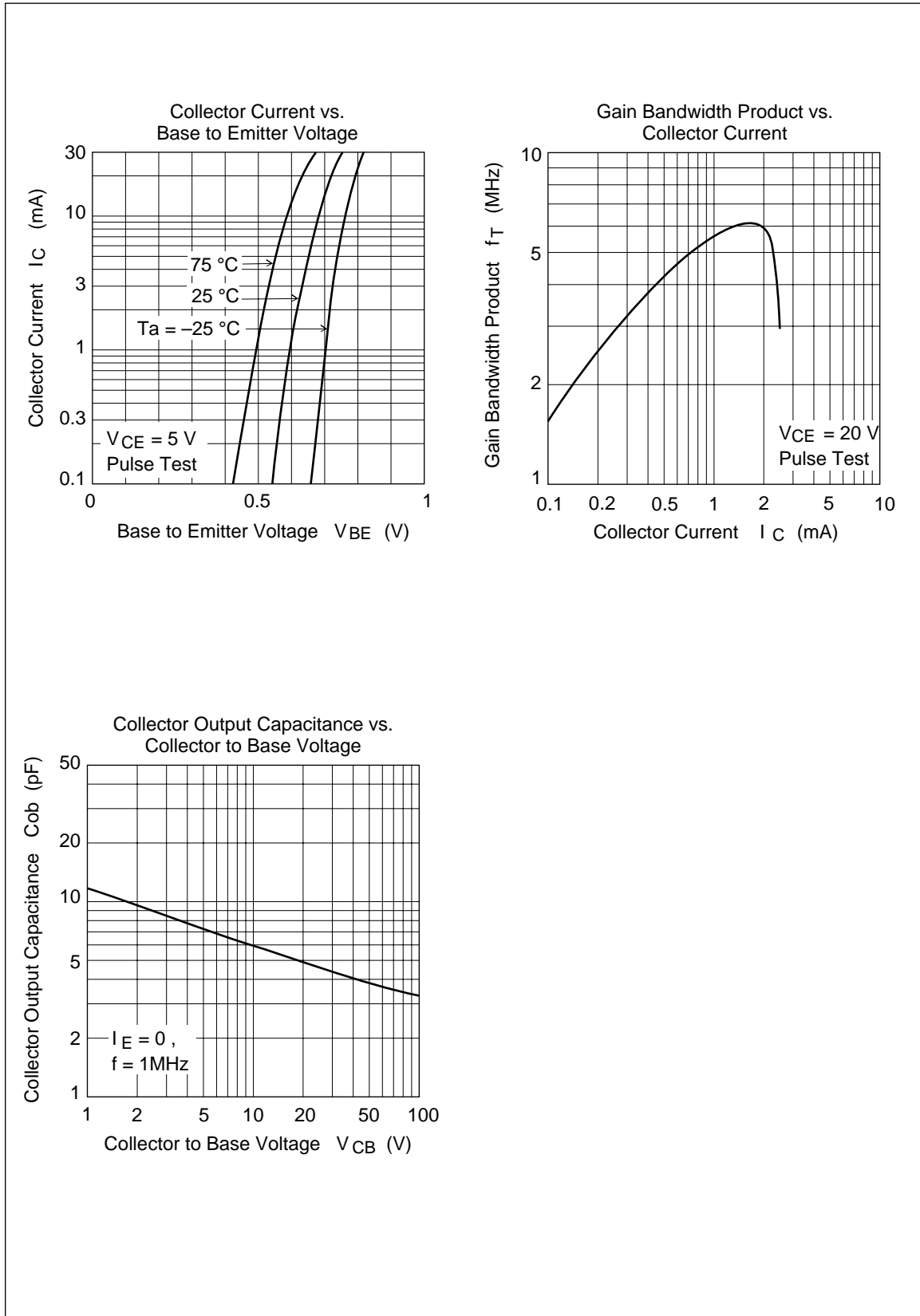
### Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector cutoff current	$I_{CES}$	—	—	10	$\mu\text{A}$	$V_{CE} = 1500\text{ V}$ , $R_{BE} = 0$
Collector cutoff current	$I_{CEO}$	—	—	100	$\mu\text{A}$	$V_{CE} = 1500\text{ V}$ , $R_{BE} = \infty$
Emitter cutoff current	$I_{EBO}$	—	—	10	$\mu\text{A}$	$V_{EB} = 6\text{ V}$ , $I_C = 0$
DC current transfer ratio	$h_{FE}$	10	—	—		$V_{CE} = 10\text{ V}$ , $I_C = 10\text{ mA}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	5.0	V	$I_C = 10\text{ mA}$ , $I_B = 2\text{ mA}$
Gain bandwidth product	$f_T$	—	5.5	—	MHz	$V_{CE} = 20\text{ V}$ , $I_C = 1\text{ mA}$
Collector output capacitance	$C_{ob}$	—	3.4	—	pF	$V_{CB} = 100\text{ V}$ , $I_E = 0$ , $f = 1\text{ MHz}$





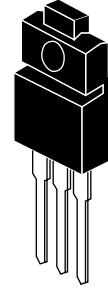
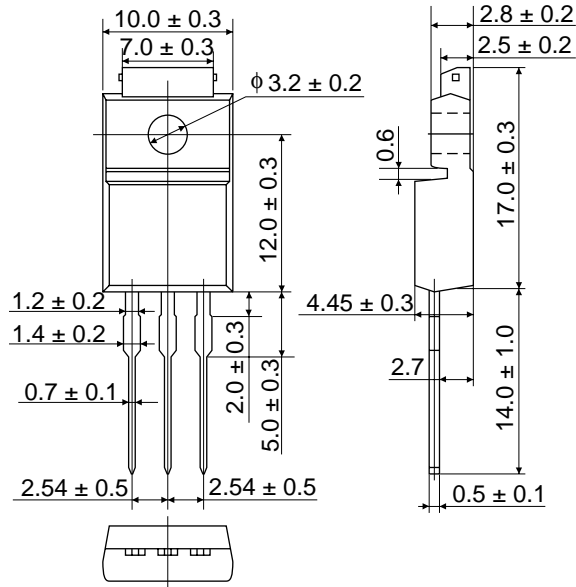
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### Package Dimensions

Unit : mm

• TO-220FM



Hitachi Code	TO-220FM
EIAJ	SC-72
JEDEC	—