2SD655

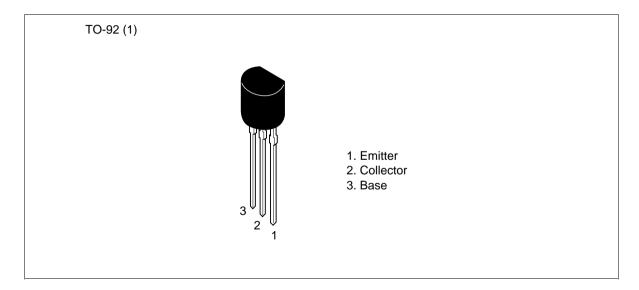
Silicon NPN Epitaxial

HITACHI

Application

Low frequency power amplifier, Muting

Outline





2SD655

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	30	V
Collector to emitter voltage	V _{CEO}	15	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	I _c	0.7	А
Collector peak current	i _{C(peak)}	1.0	А
Collector power dissipation	P _c	500	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

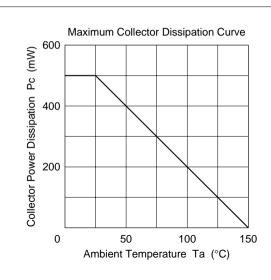
Electrical Characteristics (Ta = 25°C)

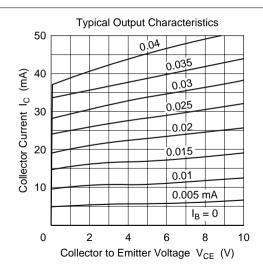
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	30	_	_	V	$I_{c} = 10 \ \mu\text{A}, \ I_{e} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	15	_	_	V	I_{C} = 1 mA, R_{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_{E} = 10 \ \mu A, \ I_{C} = 0$
Collector cutoff current	I _{CBO}	_	_	1.0	μΑ	V _{CB} = 20 V, I _E = 0
Base to emitter voltage	V_{BE}	_	_	1.0	V	$V_{CE} = 1 \text{ V}, I_{C} = 150 \text{ mA}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	0.15	0.5	V	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 50 \text{ mA}^{*2}$
DC current transfer ratio	h _{FE} *1	250	_	1200		$V_{CE} = 1 \text{ V}, I_{C} = 150 \text{ mA}^{*2}$
Gain bandwidth product	f⊤	_	250	_	MHz	$V_{CE} = 1 \text{ V, } I_{C} = 150 \text{ mA}$

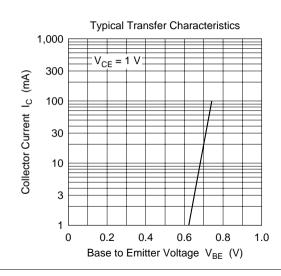
Notes: 1. The 2SD655 is grouped by $h_{\rm FE}$ as follows.

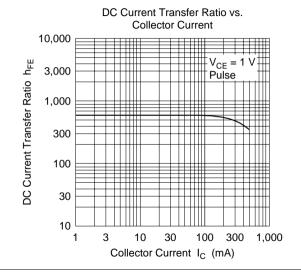
2. Pulse test

D	E	F
250 to 500	400 to 800	600 to 1200

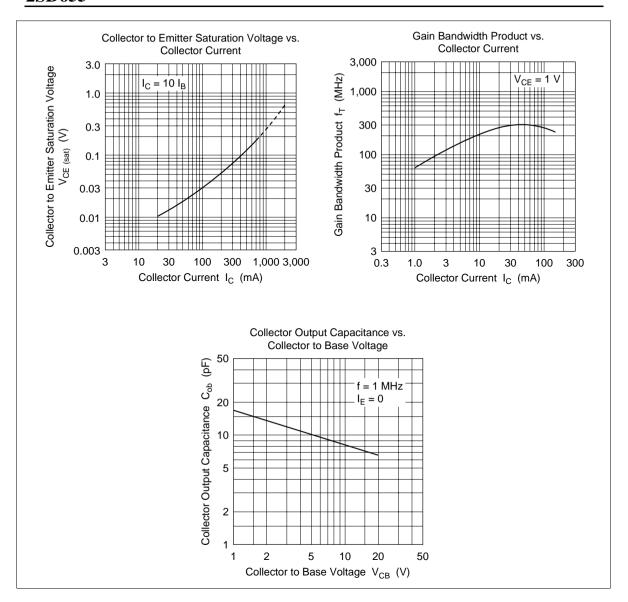




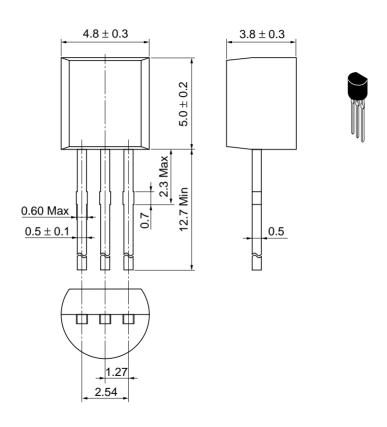




2SD655



Unit: mm



Hitachi Code	TO-92 (1)
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.25 g

Cautions

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