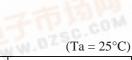
2SD655 WWW.DZSC.COM Silicon NPN Epitaxial REJ03G0768-0200 (Previous ADE-208-1136) Rev.2.00 Aug.10.2005 WWW.DZSC.CO Application Low frequency power amplifier, Muting Outline RENESAS Package code: PRSS0003DA-A (Package name: TO-92 (1)) 1. Emitter WWW.DZSC.COM 2. Collector 2

Absolute Maximum Ratings

			(1a - 23C)
Item	Sym <mark>bol</mark>	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	Ic	0.7	А
Collector peak current	i _{C(peak)}	1.0	А
Collector power dissipation	Pc	500	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +150	°C CO



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Electrical Characteristics

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

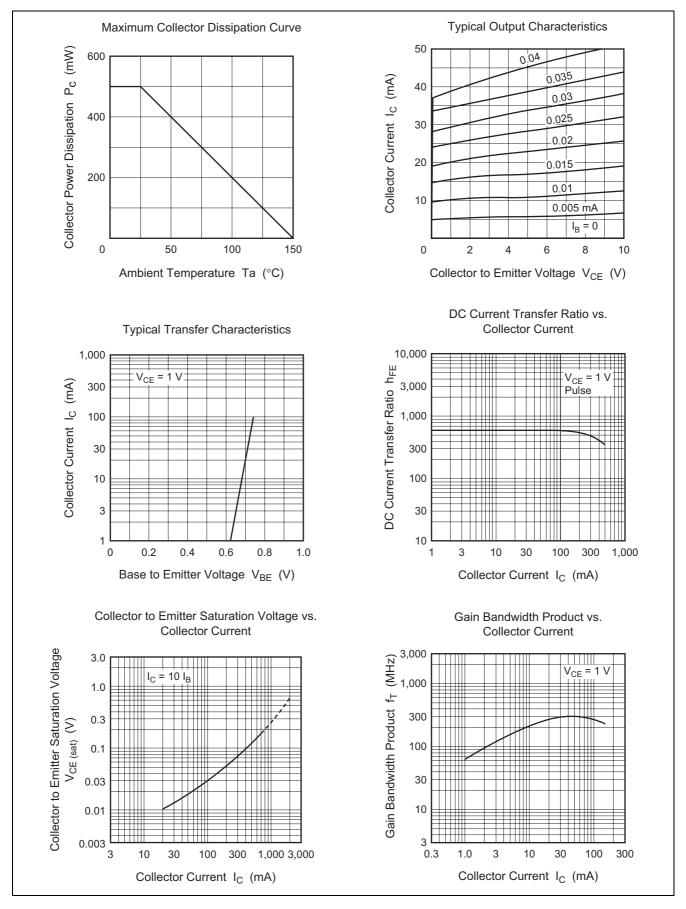
ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	30	—	-	V	$I_{C} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	V _{(BR)CEO}	15	—		V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	V _{(BR)EBO}	5	—		V	$I_E = 10 \ \mu A, \ I_C = 0$
Collector cutoff current	I _{CBO}	—	—	1.0	μA	$V_{CB} = 20 \text{ V}, I_E = 0$
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 _{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_{FE} as follows.

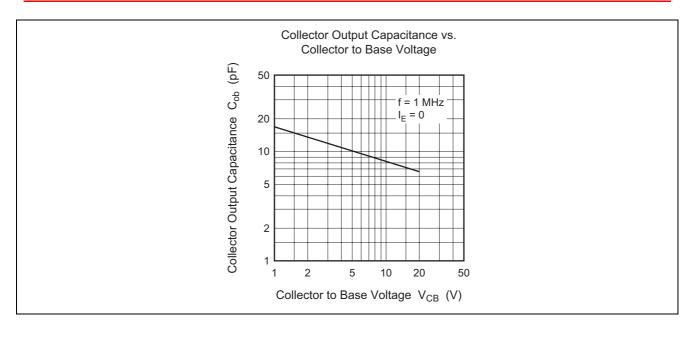
2. Pulse test

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

Main Characteristics

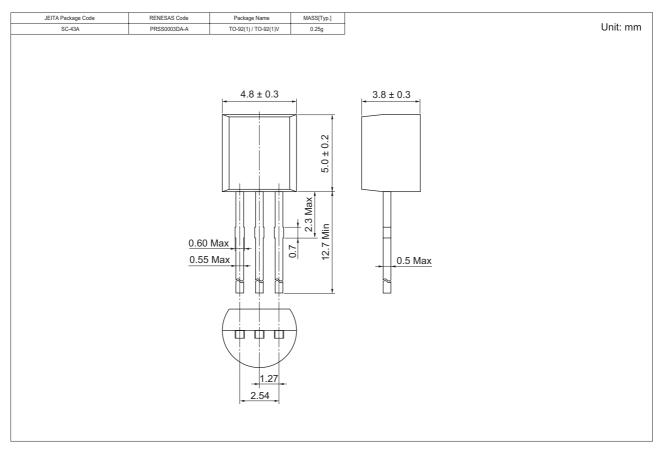


2SD655



2SD655

Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SD655DTZ-E	2500	Hold Box, Radial Taping
2SD655ETZ-E		
2SD655FTZ-E		

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.

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