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



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Silicon NPN Epitaxial, Darlington

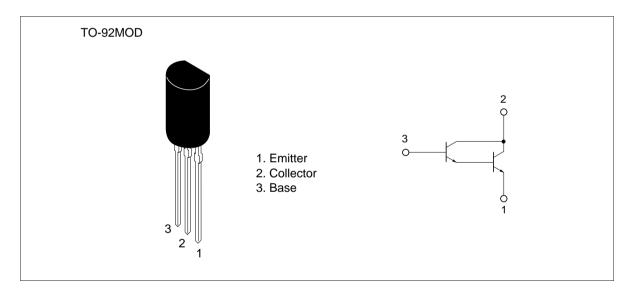


ADE-208-1143 (Z) 1st. Edition Mar. 2001

Application

- Low frequency power amplifier
- Complementary pair with 2SA1193(K)

Outline



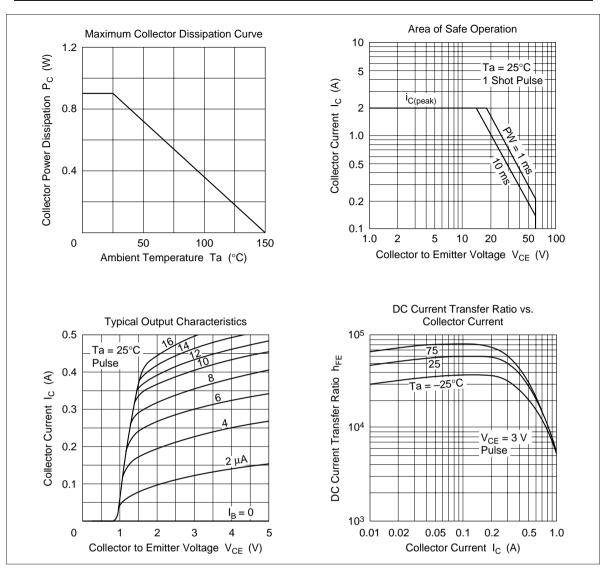
Absolute Maximum Ratings (Ta = 25° C)

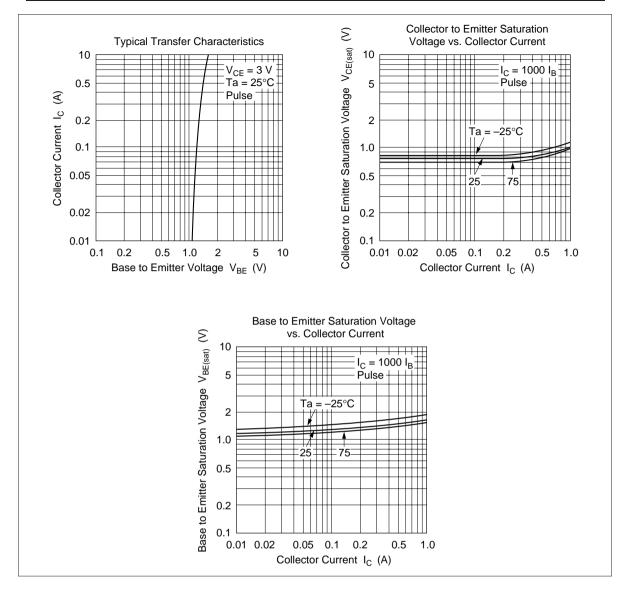
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	60	V
Collector to emitter voltage	V _{CEO}	60	V
Emitter to base voltage	V _{EBO}	7	V
Collector current	Ι _c	1	А
Collector peak current	i _{C(peak)}	2	А
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics (Ta = 25°C)

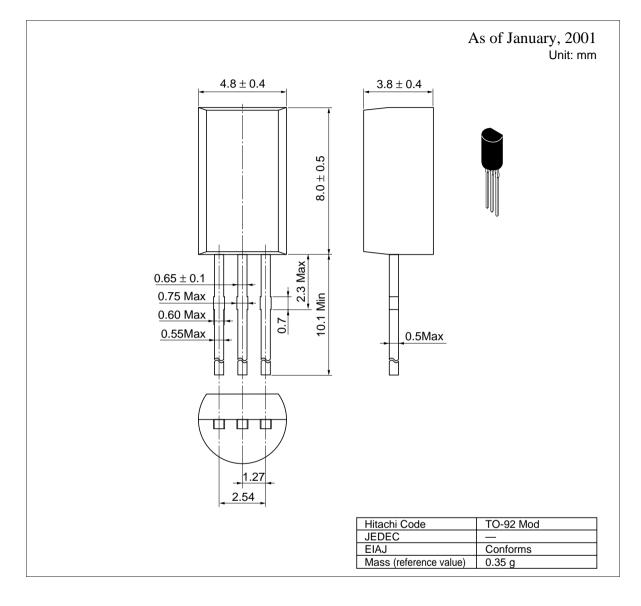
Item	Symbol	Min	Тур	Мах	Unit	Test conditions
Collector to base breakdown voltage	$V_{\rm (BR)CBO}$	60	_	—	V	$I_{c} = 0.1 \text{ mA}, I_{E} = 0$
Collector cutoff current	I _{CEO}	—	—	100	μΑ	V_{ce} = 60 V, R_{be} = ∞
Emitter cutoff current	I _{EBO}	—	—	100	μΑ	$V_{EB} = 7 V, I_{C} = 0$
DC current transfer ratio	h _{FE}	4000	—			$V_{ce} = 3 \text{ V}, I_c = 0.5 \text{ A}^{*1}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	1.5	V	$I_c = 500 \text{ mA}, I_B = 0.5 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{\text{BE(sat)}}$	—	—	2.0	V	$I_c = 500 \text{ mA}, I_B = 0.5 \text{ mA}^{*1}$
Notor 1 Dulas test						

Note: 1. Pulse test





Package Dimensions



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For further information write to:

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