Silicon NPN Epitaxial, Darlington

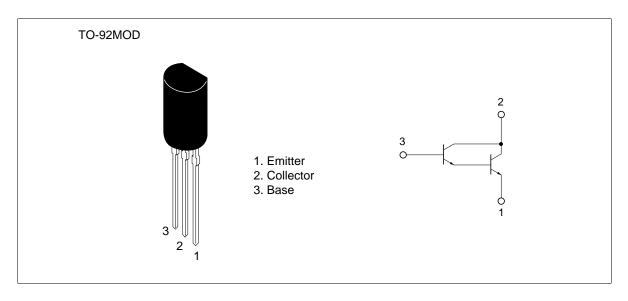
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ADE-208-1143 (Z) 1st. Edition Mar. 2001

Application

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

Outline





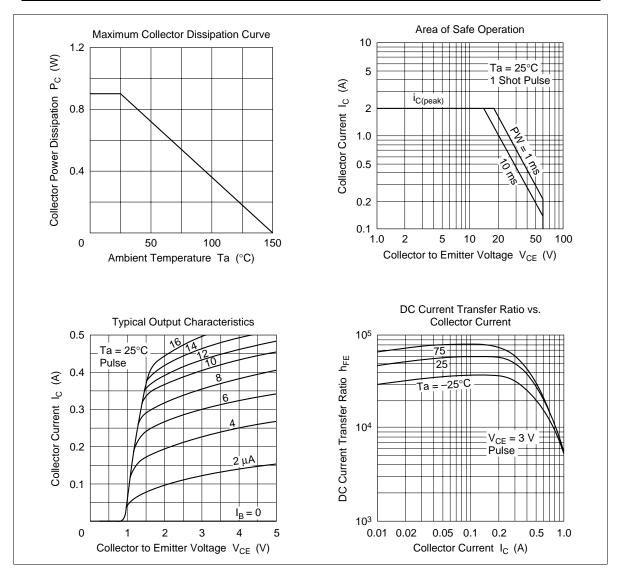
Absolute Maximum Ratings (Ta = 25° C)

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	I _c	1	А
Collector peak current	İ _{C(peak)}	2	А
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

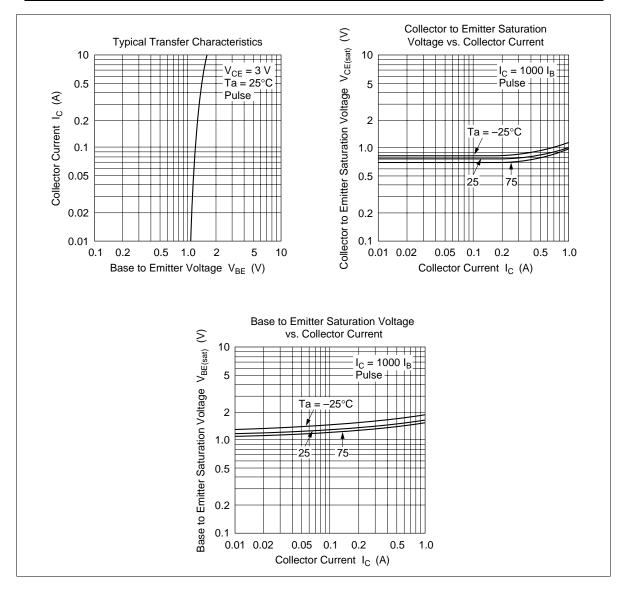
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(\text{BR})\text{CBO}}$	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	$I_{c} = 500 \text{ mA}, I_{B} = 0.5 \text{ mA}^{*1}$

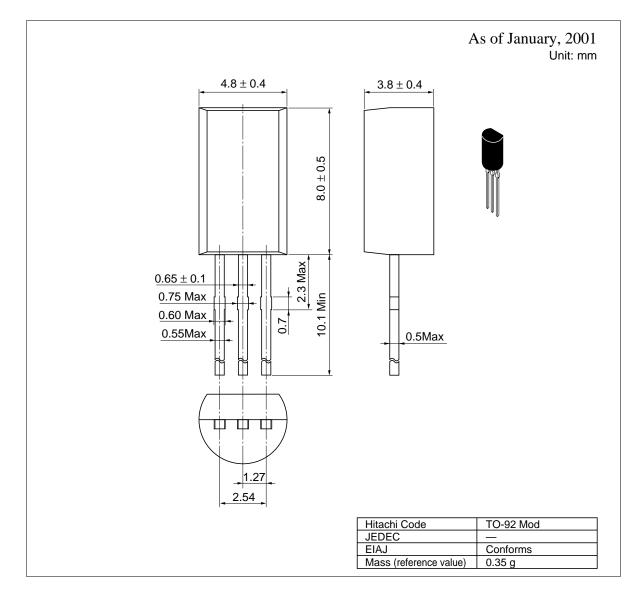
Note: 1. Pulse test



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Package Dimensions



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