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Silicon PNP Epitaxial, Darlington

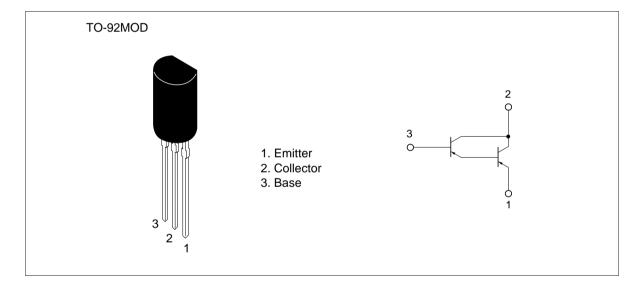


ADE-208-1013 (Z) 1st. Edition Mar. 2001

Application

High gain amplifier

Outline



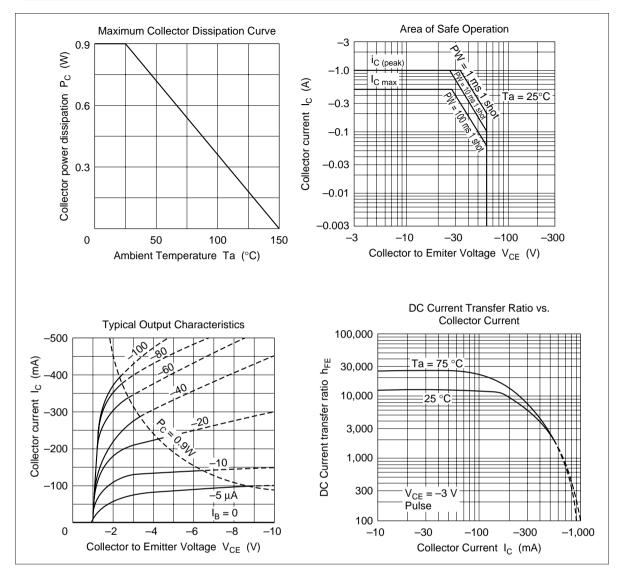
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

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	-0.5	A
Collector peak current	İ _{C(peak)}	-1.0	A
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +150	°C

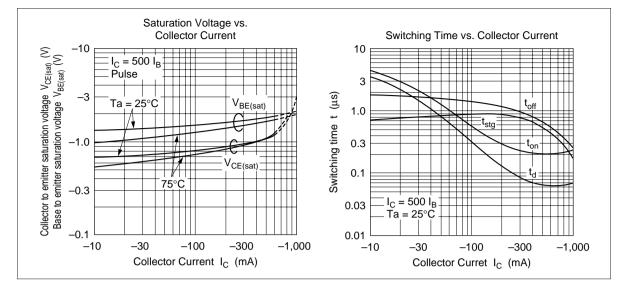
Electrical Characteristics (Ta = 25° C)

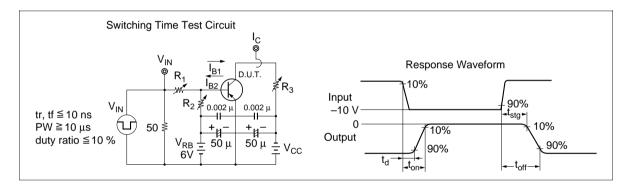
Item	Symbol	Min	Тур	Мах	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{\rm (BR)CEO}$	-60	_	_	V	$I_c = -1$ mA, $R_{BE} = \infty$
Collector cutoff current	I _{CBO}	_	—	-1.0	μΑ	$V_{CB} = -60 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	—	—	-1.0	μΑ	$V_{EB} = -7 V, I_{C} = 0$
DC current transfer ratio	h _{FE}	2000	—			$V_{ce} = -3 \text{ V}, \text{ I}_{c} = -250 \text{ mA}^{*1}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	—	_	-1.5	V	$I_c = -250 \text{ mA}, I_B = -0.5 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{\text{BE(sat)}}$	—	_	-2.0	V	
Turn on time	t _{on}	_	0.3	—	μs	I _c = -250 mA
Turn off time	t _{off}		0.9	_	μs	$I_{B1} = -I_{B2} = -0.5 \text{ mA}$

Note: 1. Pulse test

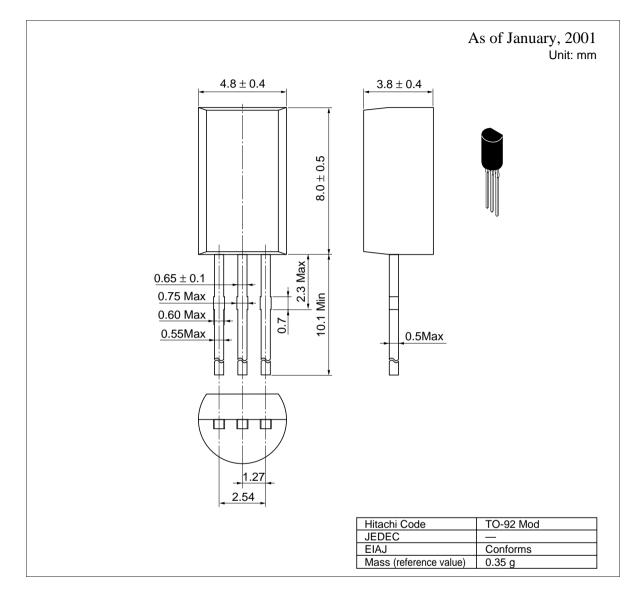








Package Dimensions



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