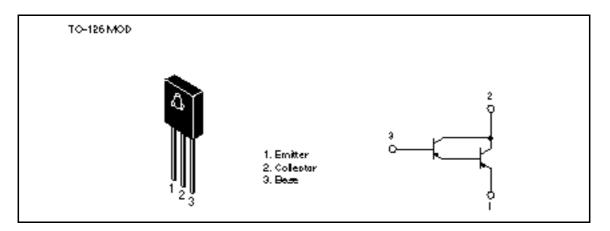
Silicon PNP Epitaxial

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Application

High gain amplifier

Outline



Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Rating	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	I _{C(peak)}	-2	А
Collector power dissipation	Pc	1	W
	P _c * ¹	8	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +150	°C

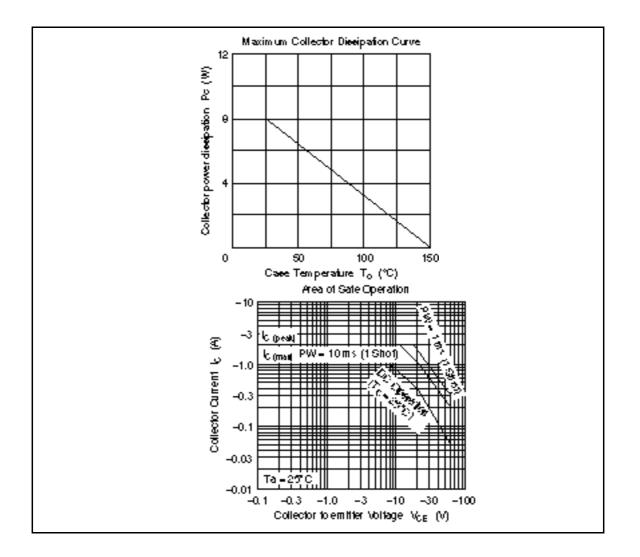
Note: 1. Value at $T_c = 25^{\circ}C$



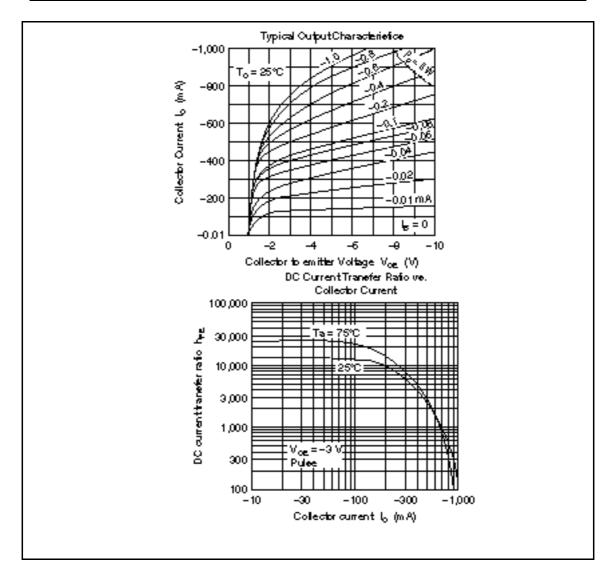
Electrical Characteristics (Ta = 25°C)

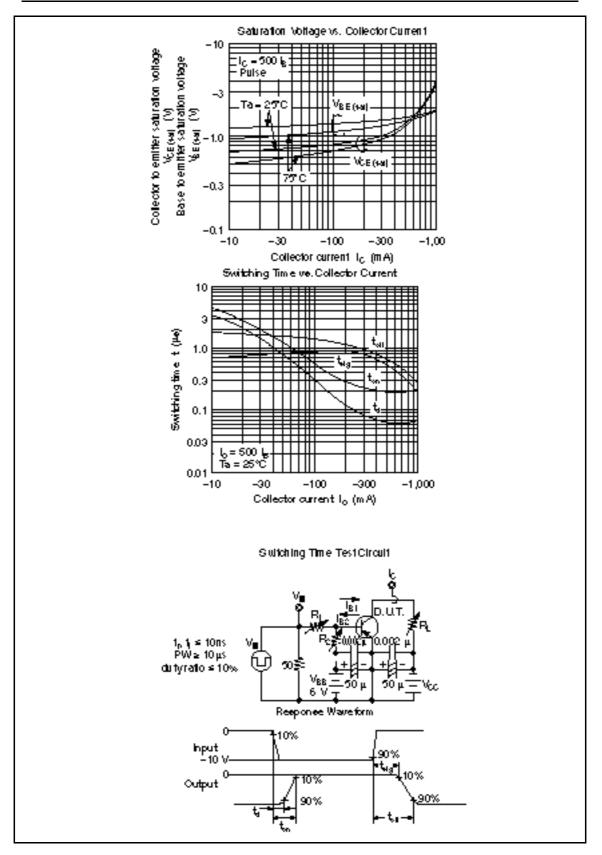
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	-60	_	—	V	$I_c = -1$ mA, $R_{BE} =$
Collector cutoff current	I _{CBO}		—	-1.0	μA	$V_{\rm CB} = -60 \text{ V}, \ I_{\rm E} = 0$
Emitter cutoff current	I _{EBO}	_	_	-1.0	μA	$V_{EB} = -7 V, I_{C} = 0$
DC current transfer ratio	h _{FE}	1000	_	_		$V_{ce} = -3 \text{ V}, \text{ I}_{c} = -500 \text{ mA}^{*1}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	-2.0	V	$I_{c} = -500 \text{ mA}, I_{B} = -1 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{\text{BE(sat)}}$	_	_	-2.0	V	_
Turn on time	t _{on}		0.7	_	μs	I _c = -500 mA
Turn off time	t _{off}		0.8	_	μs	$I_{B1} = -I_{B2} = -1 \text{ mA}$
Nata: A Dulas test						

Note: 1. Pulse test



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