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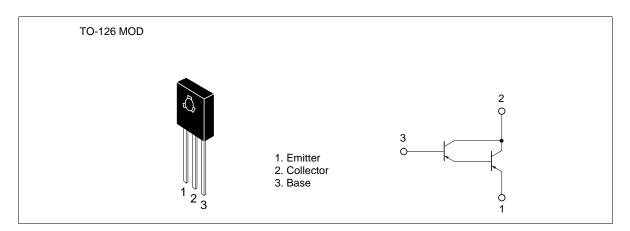
Silicon PNP Epitaxial

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Application

High gain amplifier

Outline



Absolute Maximum Ratings (Ta = 25°C)

ltem	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	Ι _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	٥C	
N / / / / / T 0500				

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

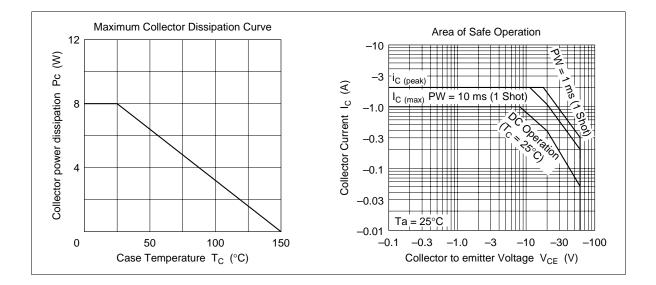


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Electrical Characteristics (Ta = 25°C)

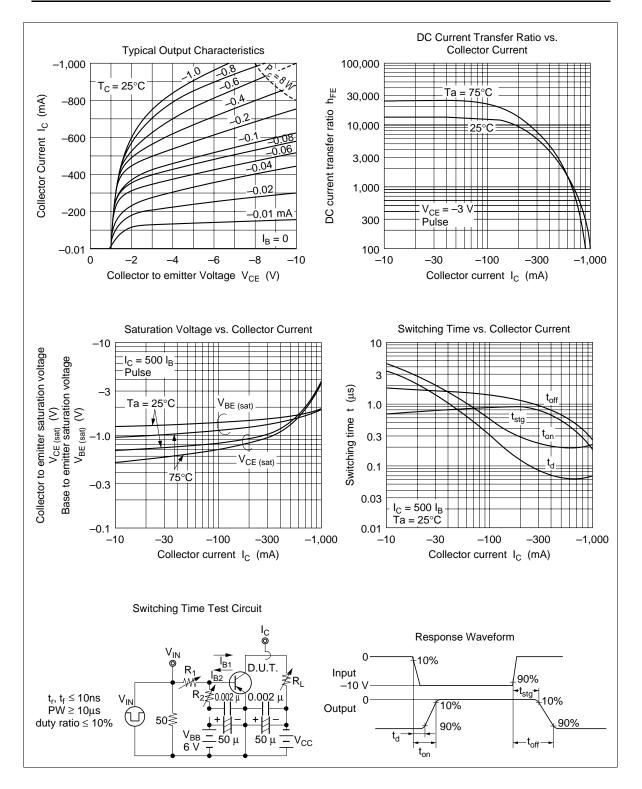
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	-60	—	_	V	$I_c = -1$ mA, $R_{BE} = \infty$
Collector cutoff current	I _{CBO}	_	—	-1.0	μΑ	$V_{\rm CB} = -60 \text{ V}, \text{ I}_{\rm E} = 0$
Emitter cutoff current	I _{EBO}		—	-1.0	μΑ	$V_{EB} = -7 \text{ V}, \text{ I}_{C} = 0$
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	$I_{B1} = -I_{B2} = -1 \text{ mA}$

Note: 1. Pulse test



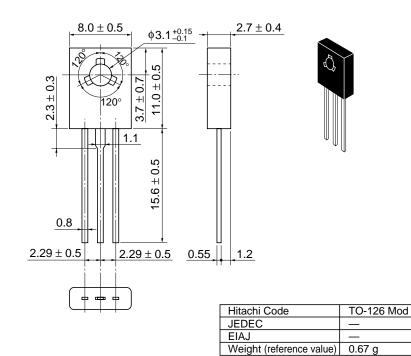
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Unit: mm



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