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2SD2598

Transistor

Silicon NPN epitaxial planer type darlington

For low-frequency amplification

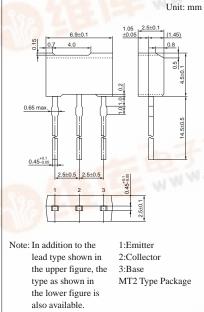
Features

- Forward current transfer ratio h_{FE} is designed high, which is appropriate to the driver circuit of motors and printer bammer: hFE = 4000 to 20000.
- A shunt resistor is omitted from the driver.
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	60	V
Collector to emitter voltage	V _{CEO}	50	V
Emitter to base voltage	V _{EBO}	5	V
Peak collector current	I _{CP}	750	mA
Collector current	I _C	500	mA
Collector power dissipation	P_{C}^{*1}	1	W
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 ~ +150	°C

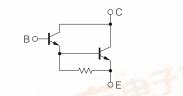
* Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion



Internal Connection

1.2±0

0.45+0



(HW type)

Parameter	Symbol	Conditions	min	typ	max	Unit	
Collector cutoff current	I _{CBO}	$V_{CB} = 25V, I_E = 0$			100	nA	
Emitter cutoff current	I _{EBO}	$V_{EB} = 4V, I_{C} = 0$			100	nA	
Collector to base voltage	V _{CBO}	$I_{\rm C} = 100 \mu A, I_{\rm E} = 0$	60			V	
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 1 {\rm mA}, I_{\rm B} = 0$	50			V	
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 100 \mu A, I_{\rm C} = 0$	5			V	
Forward current transfer ratio	h _{FE} ^{*1}	$V_{CE} = 10V, I_C = 500mA^{*2}$	4000		20000		
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 500 mA, I_B = 0.5 mA^{*2}$			2.5	V	
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = 500 mA, I_B = 0.5 mA^{*2}$			3.0	V	
Transition frequency	f _T	$V_{CB} = 10V, I_E = -50mA, f = 200MHz$		200		MHz	

Rank classification

4000 ~ 10000 | 8000 ~ 20000

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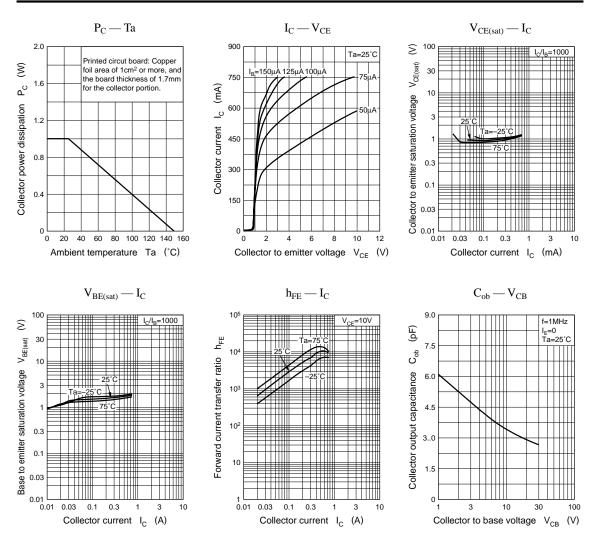
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Electrical Characteristics (Ta=25°C)

*2 Pulse measurement

Transistor



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