

2SD1753

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Silicon NPN triple diffusion planar type

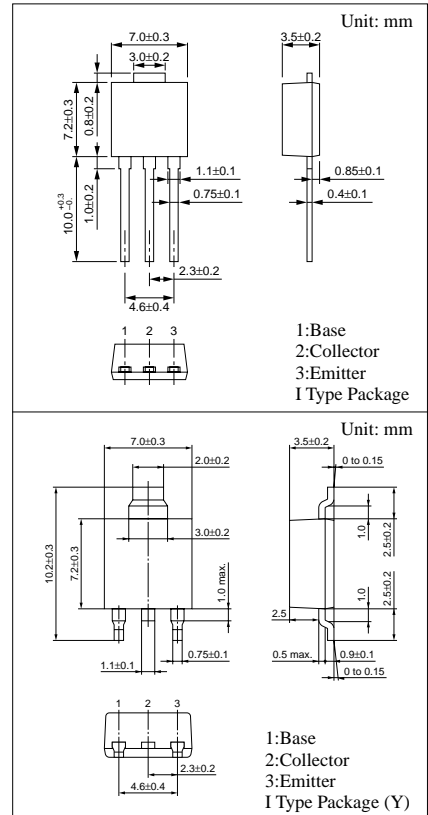
For power amplification with high forward current transfer ratio

Features

- High forward current transfer ratio h_{FE}
- Satisfactory linearity of forward current transfer ratio h_{FE}
- I type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

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

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	200	V
Collector to emitter voltage	V_{CEO}	150	V
Emitter to base voltage	V_{EBO}	6	V
Peak collector current	I_{CP}	2.5	A
Collector current	I_C	1	A
Base current	I_B	0.1	A
Collector power dissipation	P_C	$T_C=25^\circ\text{C}$	15
		$T_a=25^\circ\text{C}$	1.3
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Electrical Characteristics ($T_C=25^\circ\text{C}$)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 200\text{V}, I_E = 0$			100	μA
Emitter cutoff current	I_{EBO}	$V_{EB} = 6\text{V}, I_C = 0$			100	μA
Collector to emitter voltage	V_{CEO}	$I_C = 25\text{mA}, I_B = 0$	150			V
Forward current transfer ratio	h_{FE}^*	$V_{CE} = 4\text{V}, I_C = 0.2\text{A}$	500		2000	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 0.5\text{A}, I_B = 0.02\text{A}$			1	V
Transition frequency	f_T	$V_{CE} = 4\text{V}, I_C = 0.1\text{A}, f = 10\text{MHz}$		25		MHz

* h_{FE} Rank classification

Rank	Q	P
h_{FE}	500 to 1200	800 to 2000

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