

2SD1272

Silicon NPN Triple-Diffused Planar Type

High DC Current Gain (h_{FE}), Power Amplifier

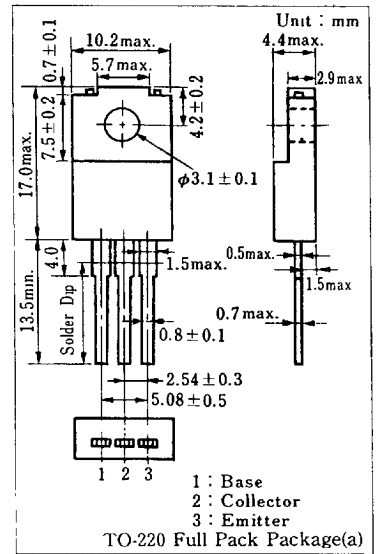
■ Features

- High DC current gain (h_{FE})
- Good linearity of DC current gain (h_{FE})
- "Full Pack" package for simplified mounting on a heat sink with one screw

■ Absolute Maximum Ratings ($T_c=25^\circ C$)

Item	Symbol	Value	Unit
Collector-base voltage	V_{CB0}	200	V
Collector-emitter voltage	V_{CE0}	150	V
Emitter-base voltage	V_{EB0}	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	$T_c = 25^\circ C$	40	W
	$T_a = 25^\circ C$	2	
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55 ~ +150	$^\circ C$

■ Package Dimensions



■ Electrical Characteristics ($T_c=25^\circ C$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CB0}	$V_{CB} = 200 V, I_I = 0$			100	μA
Emitter cutoff current	I_{EB0}	$V_{EB} = 6 V, I_C = 0$			100	μA
Collector-emitter voltage	V_{CE0}	$I_C = 25 mA, I_B = 0$	150			V
DC current gain	h_{FE}^*	$V_{CE} = 4 V, I_C = 0.2 A$	500		2000	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 0.5 A, I_B = 0.02 A$			1	V
Transition frequency	f_T	$V_{CE} = 4V, I_C = 0.1A, f = 10MHz$		25		MHz

* h_{FE} Classifications

Class	Q	P
h_{FE}	500 ~ 1200	800 ~ 2000

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