2SD1258

Silicon NPN triple diffusion planar type

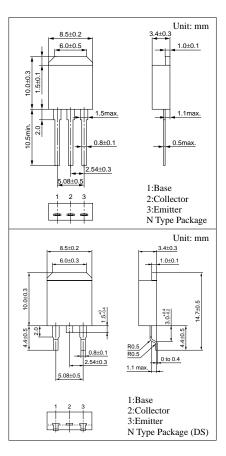
For power amplification with high forward current transfer ratio

Features

- High foward current transfer ratio h_{FE}
- Satisfactory linearity of foward current transfer ratio h_{FE}
- N 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°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		$V_{\rm EBO}$	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	T _C =25°C	D	40	***	
dissipation	Ta=25°C	P_{C}	1.3	W	
Junction temperature		T _j	150	°C	
Storage temperature		T_{stg}	-55 to +150	°C	



■ Electrical Characteristics (T_C=25°C)

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

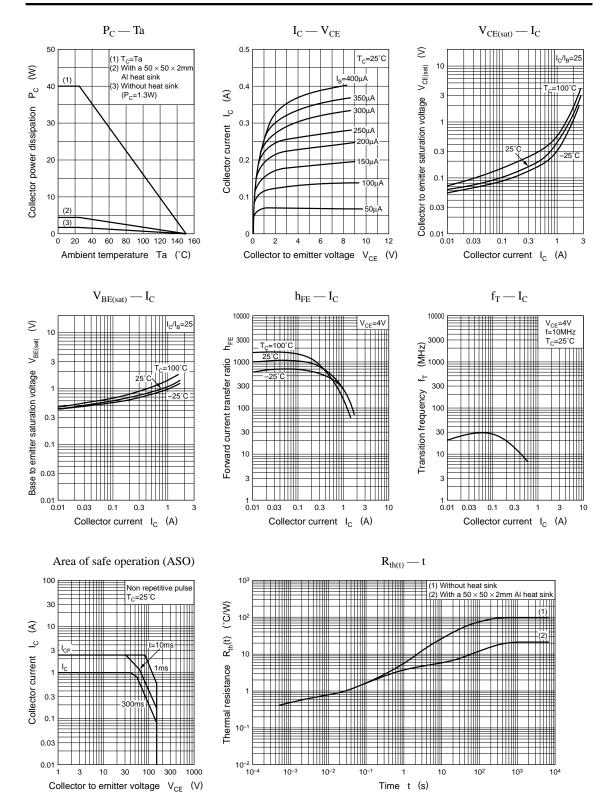
*h_{FE} Rank classification

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

Note: Ordering can be made by the common rank (PQ rank $h_{\rm FE}$ = 500 to 2000) in the rank classification.

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Power Transistors 2SD1258



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