2SB1553

Silicon PNP epitaxial planar type

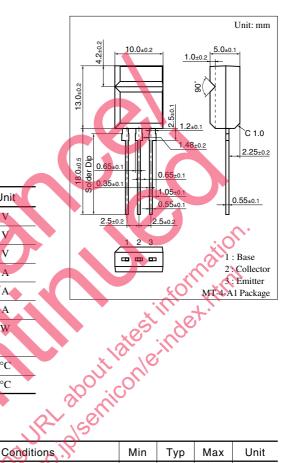
For power amplification

■ Features

- \bullet High forward current transfer ratio h_{FE}
- \bullet Satisfactory linearity of forward current transfer ratio h_{FE}
- Allowing automatic insertion with radial taping

■ Absolute Maximum Ratings $T_C = 25$ °C

Parameter		Symbol	Rating	Unit	
Collector to base voltage		V _{CBO}	-60	V	
Collector to emitter voltage		V _{CEO}	-60	У	
Emitter to base voltage		V _{EBO} -6		V	
Peak collector current		I _{CP}	-6	A	
Collector current		I_{C}	-3	A	
Base current		I _B	-1	A	
Collector power	$T_C = 25$ °C	P_C	15	W	
dissipation	$T_a = 25^{\circ}C$		2		
Junction temperature		T_{j}	150	°C	
Storage temperature		T _{stg}	-55 to +150	°C	



■ Electrical Characteristics $T_C = 25^{\circ}C$

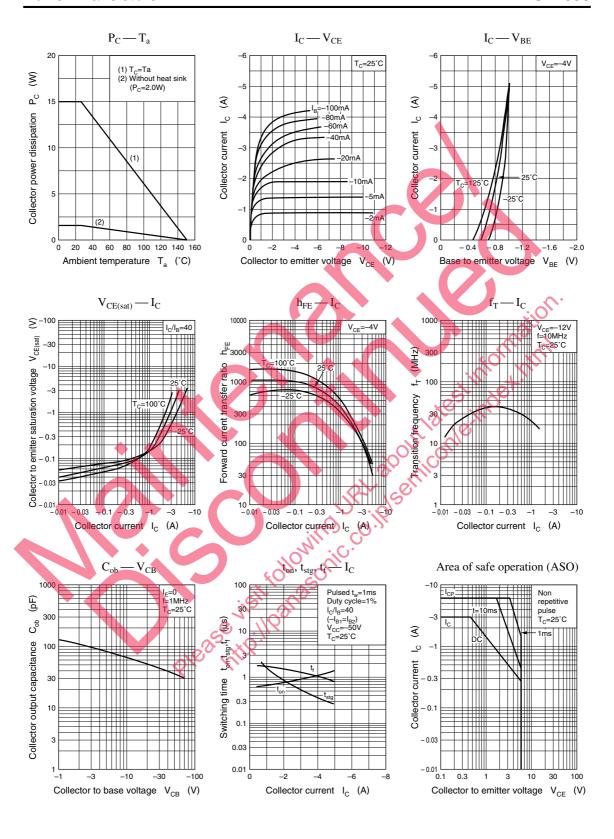
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -60 \text{ V}, I_E = 0$			-100	μΑ
	I_{CEO}	$V_{CE} = 40 \text{ V}, I_B = 0$			-100	μΑ
Emitter cutoff current	I_{EBO}	$V_{EB} = -6 \text{ V}, I_C = 0$			-100	μΑ
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -25 \text{ mA}, I_{\rm B} = 0$	-60			V
Forward current transfer ratio *	h_{FE}	$V_{CB} = -4 \text{ V}, I_{C} = -0.5 \text{ A}$	300		700	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -2 \text{ A}, I_B = -0.05 \text{ A}$			-1	V
Transition frequency	$O^{O}f_{T}$	$V_{CE} = -12 \text{ V}, I_C = -0.2 \text{ A}, f = 10 \text{ MHz}$		30		MHz

Note) *: Rank classification

Rank	Q	Р
h_{FE}	300 to 500	400 to 700

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Power Transistors 2SB1553



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