2SD2341

Silicon NPN triple diffusion planar type

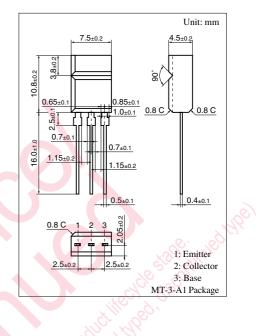
For power amplification

Features

- \bullet Low collector to emitter saturation voltage $V_{CE(sat)}$
- \bullet High collector to emitter voltage V_{CEO}
- Allowing automatic insertion possible with radial taping

Absolute Maximum Ratings $T_C = 25^{\circ}C$				
Parameter	Symbol	Rating	Unit	
Collector to base voltage	V _{CBO}	200	V	
Collector to emitter voltage	V _{CEO}	180	V	
Emitter to base voltage	V _{EBO}	6	V	
Peak collector current	I _{CP}	3	А	
Collector current	I _C	2	A	
Collector power dissipation	P _C	1.5	W	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

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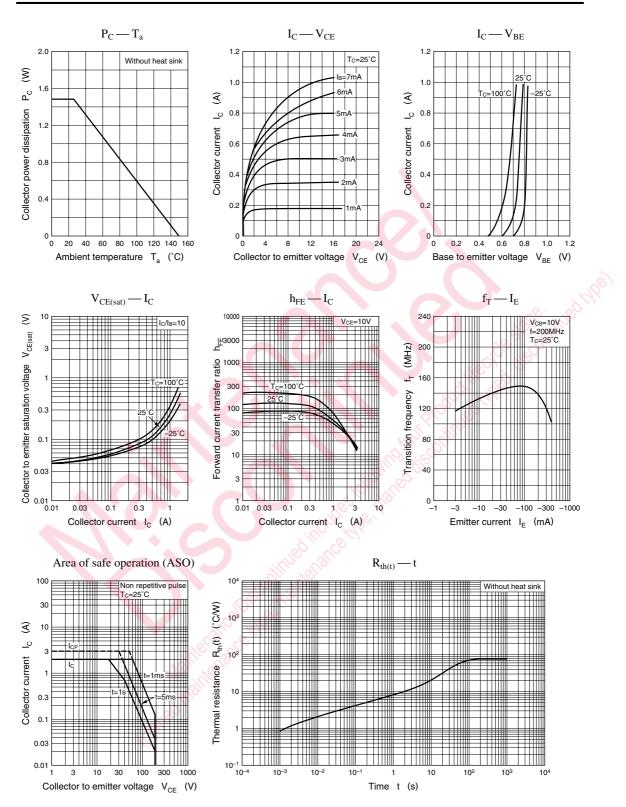


Electrical Characteristics $T_c = 25^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Мах	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 200 \text{ V}, I_E = 0$			50	μΑ
Emitter cutoff current	I _{EBO}	$V_{\rm EB} = 4 {\rm V}, {\rm I_C} = 0$			50	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = 500 \ \mu {\rm A}, \ I_{\rm E} = 0$	200			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 5 {\rm mA}, I_{\rm B} = 0$	180			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 500 \ \mu A, \ I_{\rm C} = 0$	6			V
Forward current transfer ratio	h _{FE1} *	$V_{CE} = 10 \text{ V}, I_C = 150 \text{ mA}$	60		240	
	h _{FE2}	$V_{CE} = 10 \text{ V}, I_{C} = 400 \text{ mA}$	50			
Base to emitter voltage	V _{BE}	$V_{CE} = 10 \text{ V}, I_{C} = 400 \text{ mA}$		1		V
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 50 \text{ mA}$		1		V
Transition frequency	fT	$V_{CB} = 10 \text{ V}, I_C = -100 \text{ mA}, f = 200 \text{ MHz}$		150		MHz

Note) *: Rank classification

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Rank	R	S			
h _{FE1}	60 to 140	100 to 240			



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