2SC4892

Silicon NPN triple diffusion planar type

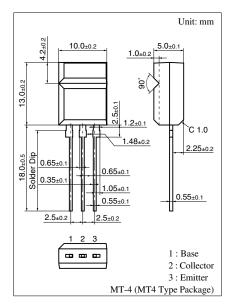
For power switching

Features

- High-speed switching
- \bullet High collector to base voltage V_{CBO}
- \bullet Satisfactory linearity of forward current transfer ratio h_{FE}
- Allowing supply with the radial taping

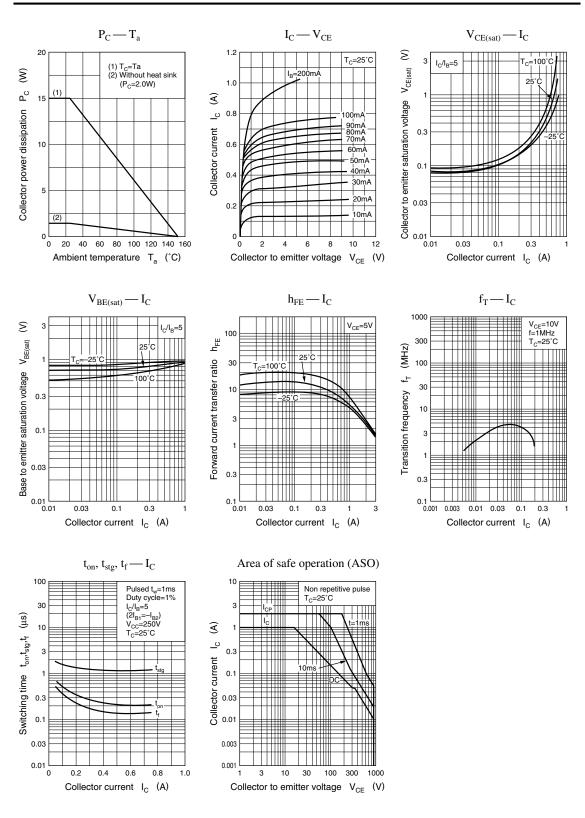
Parameter		Symbol	Rating	Unit		
Collector to base voltage		V _{CBO}	900	V		
Collector to emitter voltage		V _{CES}	900	V		
		V _{CEO}	800	V		
Emitter to base voltage		V _{EBO}	7	V		
Peak collector current		I _{CP}	2	А		
Collector current		I _C	1	А		
Base current		IB	0.3	А		
Collector power	$T_C = 25^{\circ}C$	P _C	15	W		
dissipation	$T_a = 25^{\circ}C$		2			
Junction temperature		Tj	150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

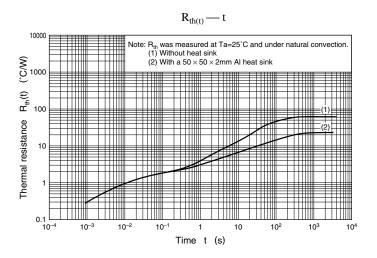
Absolute Maximum Ratings $T_C = 25^{\circ}C$



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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 900 \text{ V}, I_E = 0$			50	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 7 V, I_C = 0$			50	μΑ
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 1 \text{ mA}, I_{\rm B} = 0$	800			v
Forward current transfer ratio	h _{FE1}	$V_{CE} = 5 \text{ V}, I_C = 0.05 \text{ A}$	6			
	h _{FE2}	$V_{CE} = 5 \text{ V}, I_{C} = 0.5 \text{ A}$	3			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 0.2 \text{ A}, I_{\rm B} = 0.04 \text{ A}$			1.5	v
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 0.2 \text{ A}, I_{\rm B} = 0.04 \text{ A}$			1	v
Transition frequency	f _T	$V_{CE} = 10 \text{ V}, I_{C} = 0.05 \text{ A}, f = 1 \text{ MHz}$		4		MHz
Turn-on time	t _{on}	$I_{C} = 0.2 \text{ A}, I_{B1} = 0.04 \text{ A}, I_{B2} = -0.08 \text{ A},$			1	μs
Storage time	t _{stg}	$V_{CC} = 250 \text{ V}$			3	μs
Fall time	t _f				1	μs





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