查询2SC4420供应商 Power Transistors

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2SC4420

Silicon NPN triple diffusion planar type

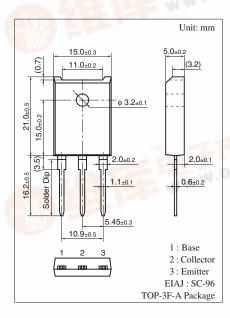
For high breakdown voltage high-speed switching W.DZSC.COM

Features

- High-speed switching
- High collector to base voltage V_{CBO}
- Wide area of safe operation (ASO)
- Satisfactory linearity of forward current transfer ratio h_{FE}
- Full-pack package which can be installed to the heat sink with one screw

Absolute Maximum Hatings $T_c = 25 C$							
Parameter		Symbol	Rating	Unit			
Collector to base voltage		V _{CBO}	900	V			
Collector to emitter voltage		V _{CES}	900	V			
	a been it	V _{CEO}	800	V			
Emitter to base voltage		V _{EBO}	7	V			
Peak collector current		I _{CP}	5	А			
Collector current		I _C	3	А			
Base current		IB	1	А			
Collector power	$T_C = 25^{\circ}C$	P _C	70	W			
dissipation	$T_a = 25^{\circ}C$	1.0	3				
Junction temperature		Tj	150	°C			
Storage temperature		T _{stg}	-55 to +150	°C			

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

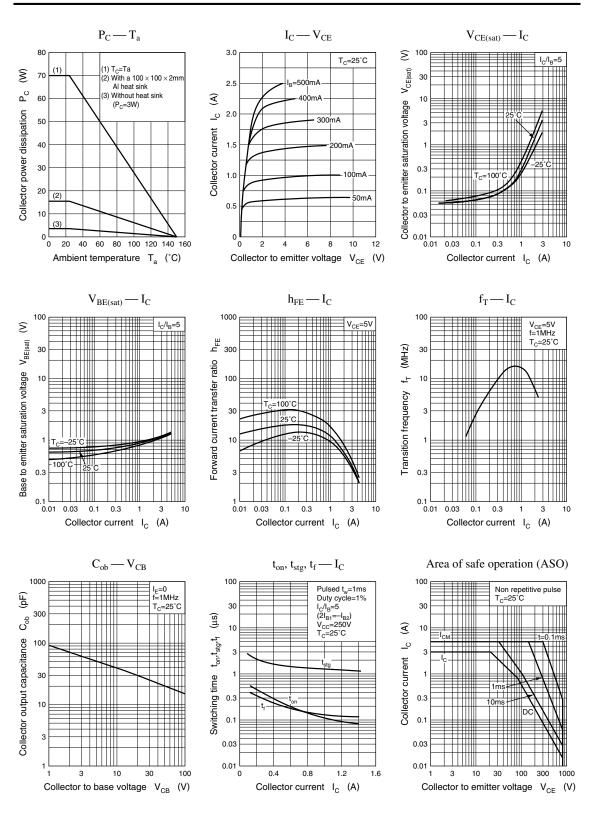


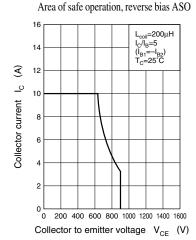
Electrical Characteristics $T_C = 25^{\circ}C$

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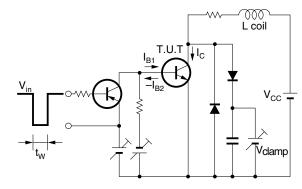
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 900 \text{ V}, I_E = 0$	-	C C C	50	μA
Emitter cutoff current	I _{EBO}	$V_{\rm EB} = 7 \text{ V}, I_{\rm C} = 0$	1		50	μA
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 10 \text{ mA}, I_{\rm B} = 0$	800			V
Forward current transfer ratio	h _{FE1}	$V_{CE} = 5 V, I_C = 0.1 A$	8			
	h _{FE2}	$V_{CE} = 5 V, I_C = 0.8 A$	6			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 0.8 \text{ A}, I_{\rm B} = 0.16 \text{ A}$			1.5	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 0.8 \text{ A}, I_{\rm B} = 0.16 \text{ A}$			1.5	V
Transition frequency	f _T	$V_{CE} = 5 V, I_C = 0.15 A, f = 1 MHz$		10		MHz
Turn-on time	t _{on}	$I_{C} = 0.8 \text{ A}, I_{B1} = 0.16 \text{ A}, I_{B2} = -0.32 \text{ A},$			0.7	μs
Storage time	t _{stg}	$V_{CC} = 250 V$			2.5	μs
Fall time	t _f				0.3	μs

Power Transistors

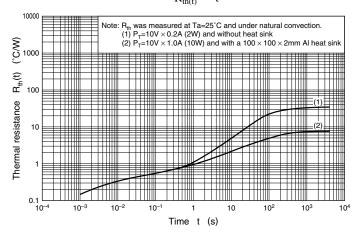




Reverse bias ASO measuring circuit



 $R_{th(t)} - t$



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