查询2SC3743供应商 Power Transistors 推多邦,专业PCB打样工厂,24小时加急 Path@sonic

2SC3743

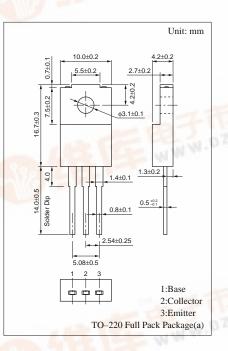
Silicon NPN triple diffusion planar type

For high breakdown voltage high-speed switching

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

Parameter		Symbol	Ratings	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}	5	А	
Collector current		I _C	3	А	
Base current		I _B	1	А	
Collector power	T _C =25°C	D	40	w	
dissipation	Ta=25°C	P _C	2		
Junction temperature		Tj	150	°C	
Storage temperature		T _{stg}	-55 to +150	°C	

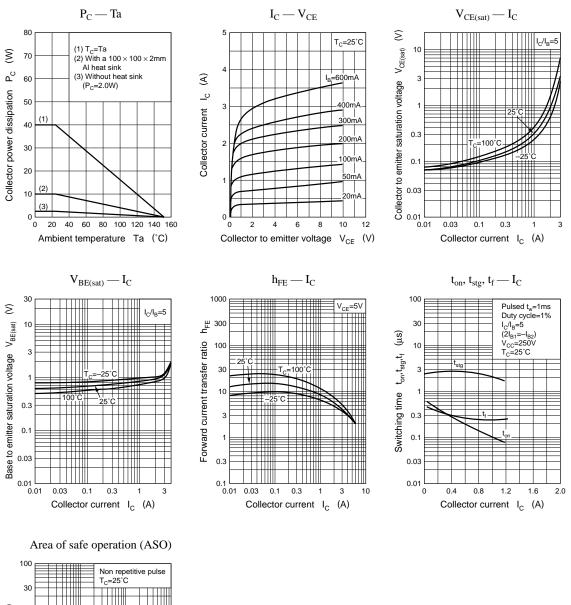
Absolute Maximum Ratings (T_C=25°C)

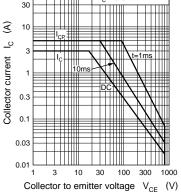


Electrical Characteristics (T_C=25°C)

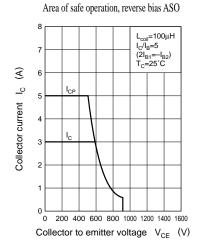
Parameter	Symbol Conditions		min	typ	max	Unit
Collector cutoff current I _{CBO} V		$V_{CB} = 900V, I_E = 0$	150		50	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 7V, I_C = 0$			50	μA
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	800			V
	h _{FE1}	$V_{CE} = 5V, I_C = 0.1A$	6			
Forward current transfer ratio	h _{FE2}	$V_{CE} = 5V, I_C = 0.8A$	6			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 0.8 {\rm A}, I_{\rm B} = 0.16 {\rm A}$			0.6	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 0.8 \text{A}, I_{\rm B} = 0.16 \text{A}$			1.2	V
ransition frequency f_T $V_{CE} = 5V, I_C = 0.1A, f = 1MHz$			4		MHz	
Turn-on time t _{on}					1.0	μs
Storage time	t _{stg}	$I_{\rm C} = 0.8$ A, $I_{\rm B1} = 0.16$ A, $I_{\rm B2} = -0.32$ A,			4.0	μs
Fall time	t _f	$V_{\rm CC} = 250 V$			1.0	μs

Power Transistors

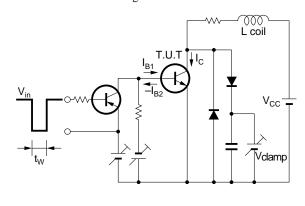




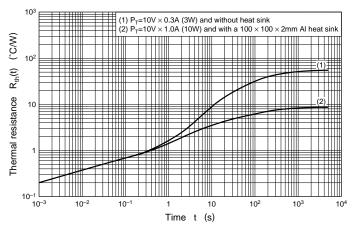
Power Transistors



Reverse bias ASO measuring circuit



 $R_{th(t)} - t$



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