2SC5034

Silicon NPN triple diffusion planar type

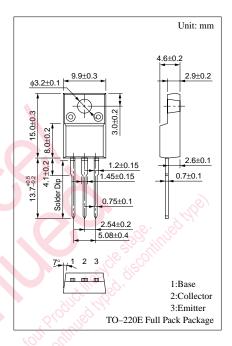
For high breakdown voltage high-speed switching

Features

- High collector to emitter V_{CEO} •
- High-speed switching
- Full-pack package with outstanding insulation, which can be installed to the heat sink with one screw

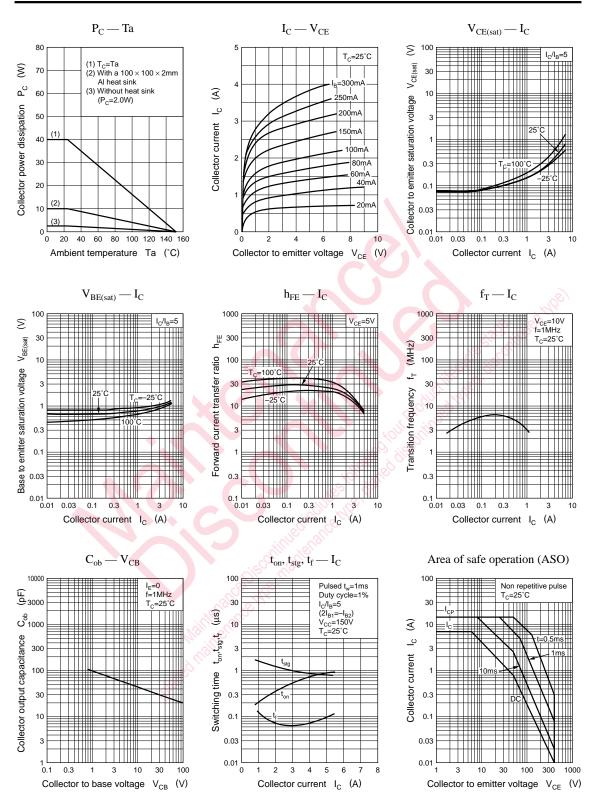
Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	500	V	
	V _{CES}	500	V	
Collector to emitter voltage	V _{CEO}	400	V	
Emitter to base voltage	V_{EBO}	7	V	
Peak collector current	I _{CP}	15	А	
Collector current	I _C	7	А	
Base current	IB	3	Α	
Collector power $T_C=25^{\circ}C$	P	35	W	
dissipation Ta=25°C	P _C	2.0	W	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	
			S'IL'S	

Absolute Maximum Ratings $(T_{-25}^{\circ}C)$

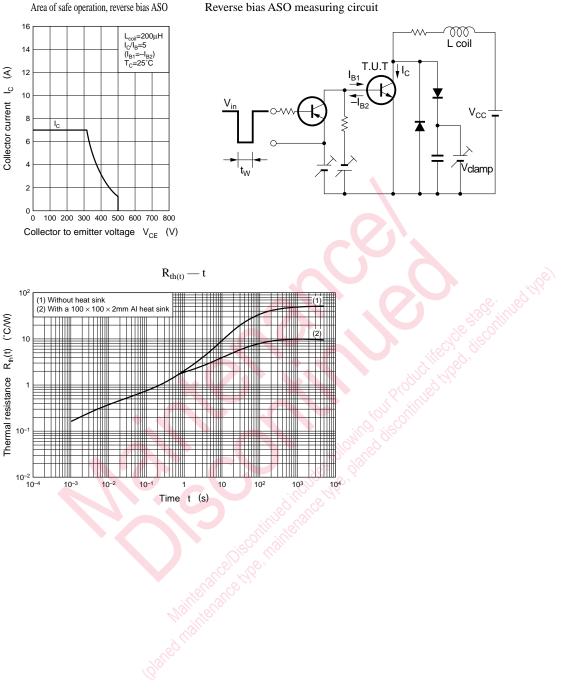


Electrical Characteristics (T_c=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 500V, I_E = 0$			100	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 5V, I_C = 0$			100	μΑ
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	400			V
Forward current transfer ratio	h _{FE1}	$V_{CE} = 5V, I_C = 0.1A$	10			
	h _{FE2}	$V_{CE} = 5V, I_C = 3A$	8			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 3A, I_{\rm B} = 0.6A$			1.0	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 3A, I_{\rm B} = 0.6A$			1.5	V
Transition frequency	f _T	$V_{CE} = 10V, I_C = 0.5A, f = 1MHz$		10		MHz
Turn-on time	t _{on}	$I_{C} = 3A, I_{B1} = 0.6A, I_{B2} = -1.2A,$ $V_{CC} = 150V$			1.0	μs
Storage time	t _{stg}				2.0	μs
Fall time	t _f				0.3	μs



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Reverse bias ASO measuring circuit

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