

2SC5244, 2SC5244A

Silicon NPN triple diffusion mesa type

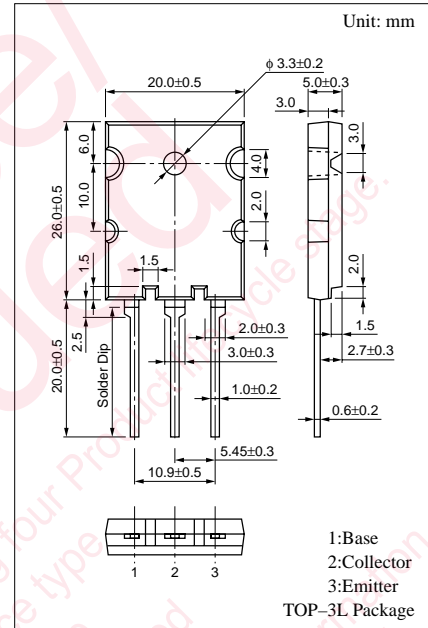
For horizontal deflection output

Features

- High breakdown voltage, and high reliability through the use of a glass passivation layer
- High-speed switching
- Wide area of safe operation (ASO)

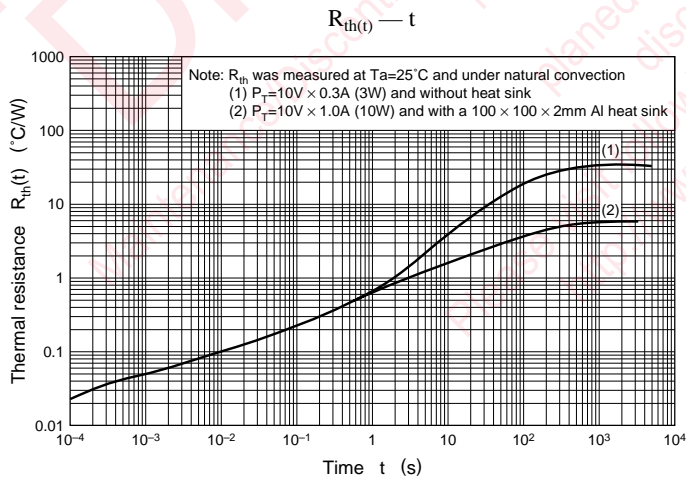
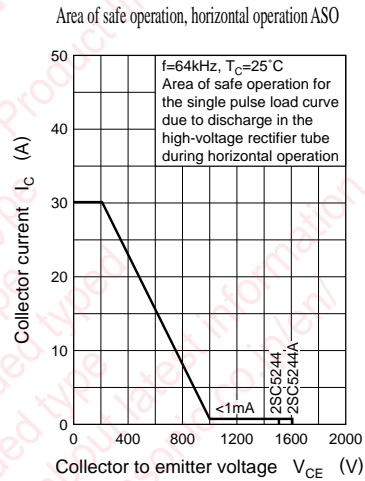
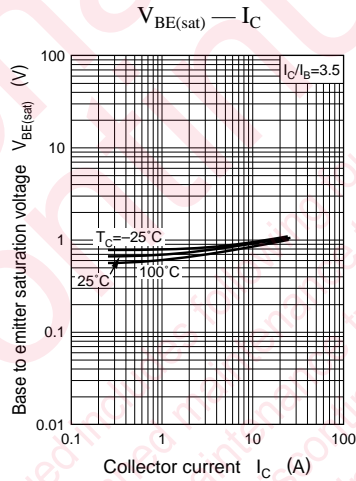
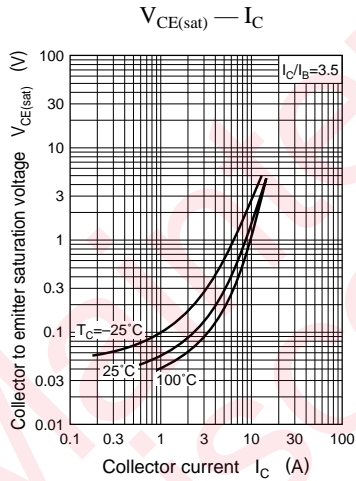
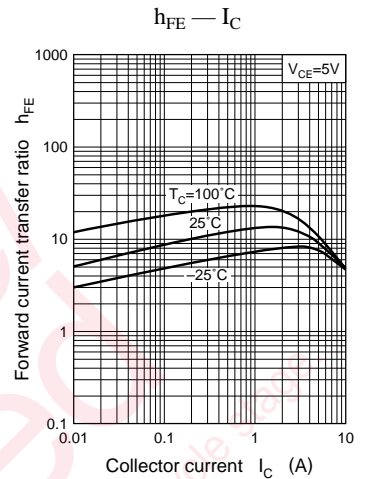
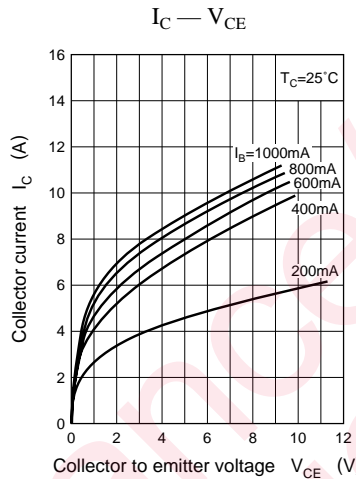
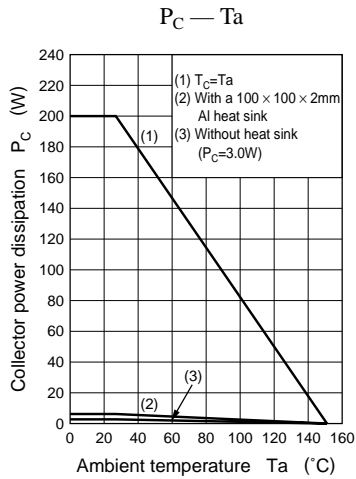
Absolute Maximum Ratings (T_C=25°C)

Parameter	Symbol	Rated	Unit
Collector to base voltage	V _{CB0}	1500	V
		1600	
Collector to emitter voltage	V _{CES}	1500	V
		1600	
Emitter to base voltage	V _{EBO}	6	V
Peak collector current	I _{CP}	20	A
Collector current	I _C	30	A
Collector power dissipation	P _C	200	W
		3.5	
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



Electrical Characteristics (T_C=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	2SC5244	V _{CB} = 1500V, I _E = 0			1	mA
	2SC5244A	V _{CB} = 1600V, I _E = 0			1	
Emitter cutoff current	I _{EBO}	V _{EB} = 5V, I _C = 0			50	μA
Forward current transfer ratio	h _{FE}	V _{CE} = 5V, I _C = 10A	5		12	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = 10A, I _B = 2.8A			3	V
Base to emitter saturation voltage	V _{BE(sat)}	I _C = 10A, I _B = 2.8A			1.5	V
Transition frequency	f _T	V _{CE} = 10V, I _C = 0.1A, f = 0.5MHz		3		MHz
Storage time	t _{stg}	I _C = 12A, I _{B1} = 2.4A, I _{B2} = -4.8A,		1.5	2.5	μs
Fall time	t _f	Resistance loaded		0.12	0.2	



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