

2SC5270, 2SC5270A

Silicon NPN triple diffusion mesa type

For horizontal deflection output

Features

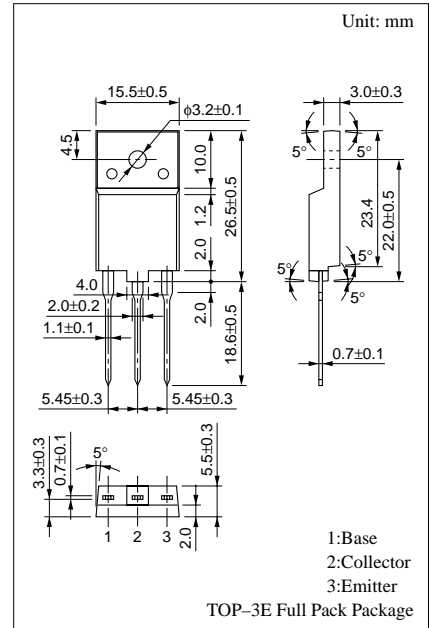
- High breakdown voltage, and high reliability through the use of a glass passivation layer
- High-speed switching
- Wide area of safe operation (ASO)

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

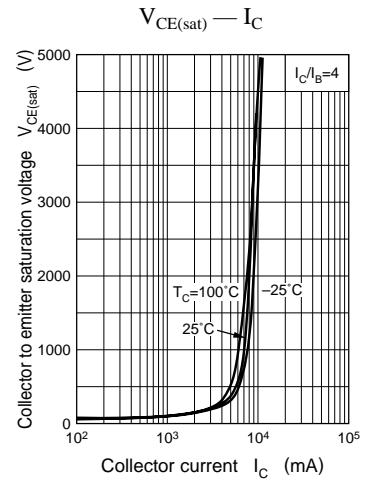
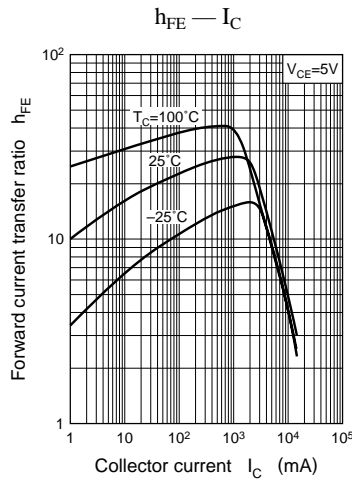
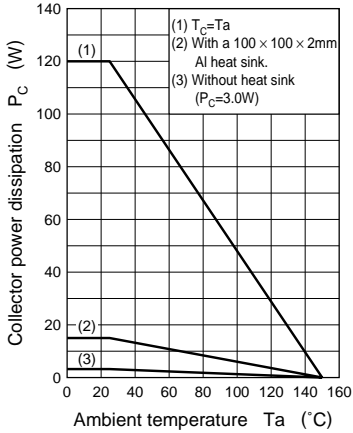
Parameter	Symbol	Rated	Unit
Collector to base voltage	V_{CBO}	1500	V
2SC5270A		1600	
Collector to base voltage	V_{CES}	1500	V
2SC5270A		1600	
Collector to emitter voltage	V_{CEO}	600	V
Emitter to base voltage	V_{EBO}	5	V
Peak collector current	I_{CP}	20	A
Collector current	I_C	12	A
Base current	I_B	8	A
Collector power dissipation	P_C	120	W
$T_C=25^\circ\text{C}$		3	
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

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

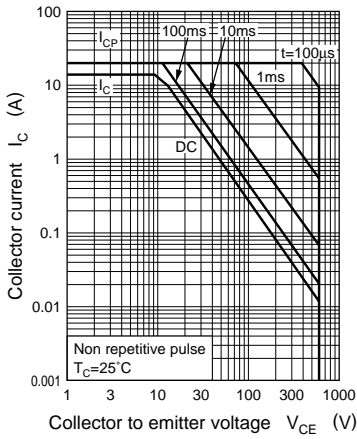
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 1000\text{V}, I_E = 0$			50	μA
					50	
		$V_{CB} = 1500\text{V}, I_E = 0$			1	mA
			$V_{CB} = 1600\text{V}, I_E = 0$			
Emitter cutoff current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$			50	μA
Forward current transfer ratio	h_{FE}	$V_{CE} = 5\text{V}, I_C = 6\text{A}$	5		12	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 6\text{A}, I_B = 1.5\text{A}$			3	V
Base to emitter saturation voltage	$V_{BE(sat)}$	$I_C = 6\text{A}, I_B = 1.5\text{A}$			1.5	V
Transition frequency	f_T	$V_{CE} = 10\text{V}, I_C = 0.1\text{A}, f = 0.5\text{MHz}$		3		MHz
Storage time	t_{stg}	$I_C = 6\text{A}, I_{B1} = 1.5\text{A}, I_{B2} = -3\text{A}$		1.5	2.5	μs
Fall time	t_f			0.12	0.2	μs



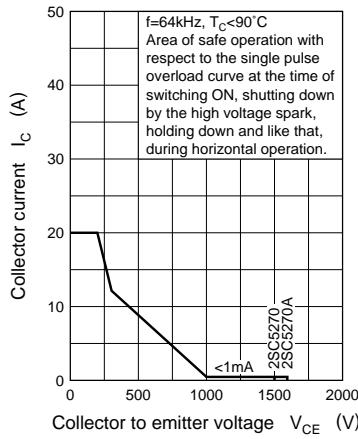
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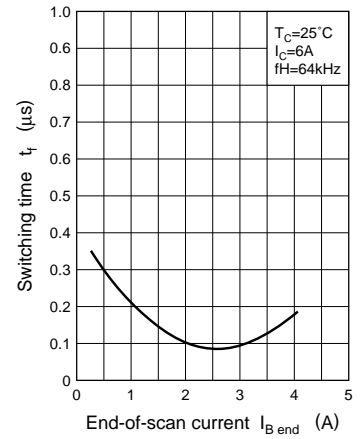
Area of safe operation (ASO)



Area of safe operation, horizontal operation ASO



$t_f - I_B$



$t_{stg} - I_B$

