

2SC5515

Silicon NPN triple diffusion mesa type

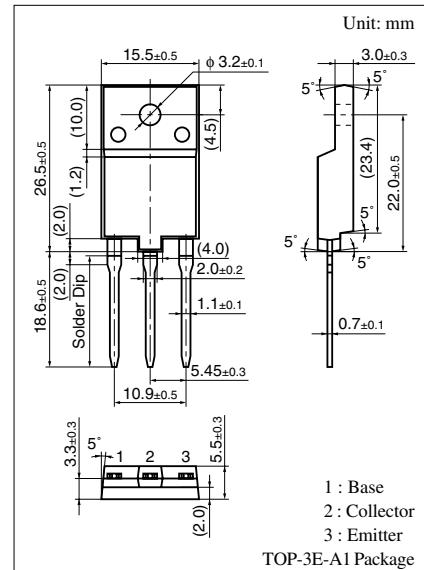
For horizontal deflection output

■ Features

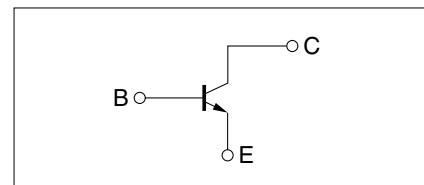
- High breakdown voltage, and high reliability through the use of a glass passivation layer
- High-speed switching
- Wide area of safe operation (ASO)

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

Parameter	Symbol	Rating	Unit
Collector to base voltage	V _{CBO}	1 500	V
Collector to emitter voltage	V _{CES}	1 500	V
	V _{CEO}	600	V
Emitter to base voltage	V _{EBO}	7	V
Peak collector current	I _{CP}	27	A
Collector current	I _C	17	A
Base current	I _B	8	A
Collector power dissipation	T _C = 25°C T _a = 25°C	P _C	65
			3
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

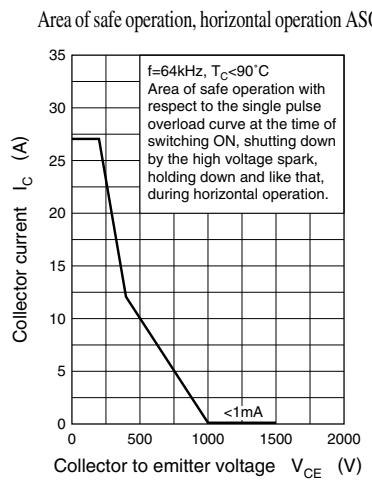
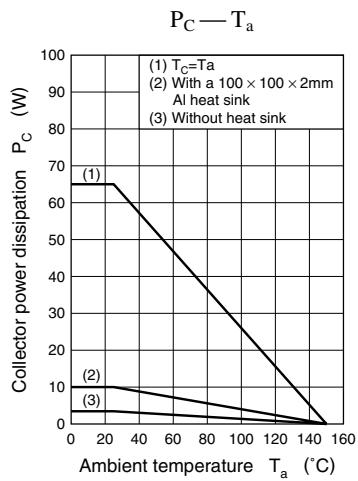


Internal Connection



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = 1 000 V, I _E = 0			50	µA
		V _{CB} = 1 500 V, I _E = 0			1	mA
Emitter cutoff current	I _{EBO}	V _{EB} = 7 V, I _C = 0			50	µA
Forward current transfer ratio	h _{FE}	V _{CE} = 5 V, I _C = 8.5 A	5		12	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = 8.5 A, I _B = 2.13 A			3	V
Base to emitter saturation voltage	V _{BE(sat)}	I _C = 8.5 A, I _B = 2.13 A			1.5	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 0.1 A, f = 0.5 MHz		3		MHz
Storage time	t _{stg}	I _C = 8.5 A, I _{B1} = 2.13 A, I _{B2} = -4.25 A			2.7	µs
Fall time	t _f				0.2	µs



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