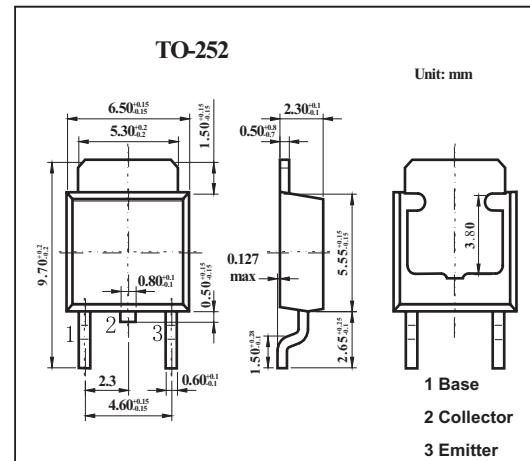


Silicon NPN Triple Diffused Mesa Type**2SC5355****■ Features**

- Excellent switching times: $t_r = 0.5 \mu\text{s}$ (max), $t_f = 0.3 \mu\text{s}$ (max)
- High collector breakdown voltage: $V_{CEO} = 400 \text{ V}$
- High DC current gain: $hFE = 20$ (min)

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	600	V
Collector-emitter voltage	V _{CEO}	400	V
Emitter-base voltage	V _{EBO}	7	V
Collector current (DC)	I _C	5	A
Collector current (Pulse)	I _{CP}	7	
Base current	I _B	1	A
Collector power dissipation Ta = 25°C T _c = 25°C	P _C	1.5 25	W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55 to +150	°C

2SC5355

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cut-off current	I _{CB0}	V _{CB} = 480 V, I _E = 0			100	µA
Emitter cut-off current	I _{EB0}	V _{EB} = 7 V, I _C = 0			10	µA
Collector-base breakdown voltage	V _(BR) CBO	I _C = 1 mA, I _E = 0	600			V
Collector-emitter breakdown voltage	V _(BR) CEO	I _C = 10 mA, I _B = 0	400			V
DC current gain	h _{FE}	V _{CE} = 5 V, I _C = 1 mA	12			
		V _{CE} = 5 V, I _C = 0.5 A	20		65	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 2 A, I _B = 0.25 A			1.0	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C = 2 A, I _B = 0.25 A			1.3	V
Switching time Rise time	t _r	 20 µs			0.5	µs
Switching time Storage time	t _{stg}				2.0	
Switching time Fall time	t _f		I _{B1} = 0.25 A, I _{B2} = -0.5 A DUTY CYCLE ≤ 1%			0.3

■ Marking

Marking	C5355
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