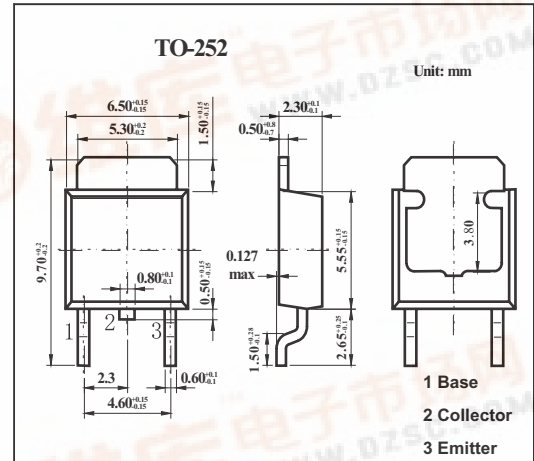


SMD Type Transistors

NPN Silicon Triple Diffused Transistor
2SC3405

Features

- Excellent Switching Times
tr=1.0μs (Max.) tf=1.0μs (Max.) at Ic=0.3A
- High collector Breakdown Voltage: VCE0=800V



Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V _{CB0}	900	V
Collector to emitter voltage	V _{CE0}	800	V
Emitter to base voltage	V _{EB0}	8	V
Collector current (DC)	I _C	0.8	A
Collector current (Pulse)	I _{cp}	1.5	A
Base Current	I _B	0.2	A
Total Power dissipation Ta = 25°C Tc = 25°C	P _C	1	W
		20	W
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
collector cutoff current	I _{CBO}	V _{CB} =800V, I _E =0			100	μA
emitter cutoff current	I _{EBO}	V _{EB} =8V, I _C =0			1	mA
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E =1mA, I _C =0	900			V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	800			V
DC current Gain	h _{FE}	V _{CE} =5V, I _C =1mA	6			
		V _{CE} =5V, I _C =0.3A	10			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =0.3A, I _B =0.06A			0.5	V
Base- Emitter Saturation Voltage	V _{BE(sat)}	I _C =0.3A, I _B =0.06A			1.2	V
Switching time turn-On time	tr				1	μs
Switching storage time	tstg				4.0	μs
Switching fall time	tf		I _{B1} = -I _{B2} = 0.06 A, DUTY CYCLE ≤ 1%			1

