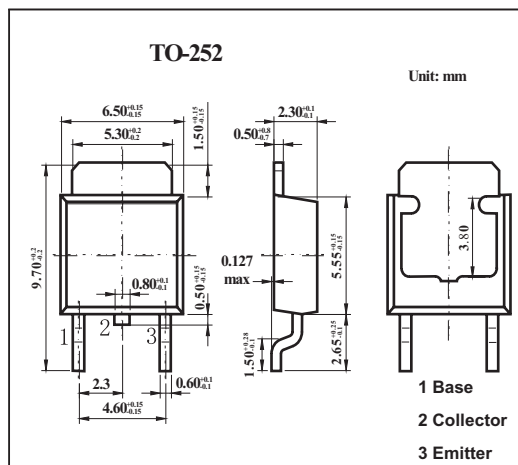


2SC3405

■ Features

- Excellent Switching Times
 $t_r=1.0\mu s$ (Max.) $t_f=1.0\mu s$ (Max.) at $I_c=0.3A$
- High collector Breakdown Voltage: $V_{CE0}=800V$



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	900	V
Collector to emitter voltage	V_{CEO}	800	V
Emitter to base voltage	V_{EBO}	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 $T_a = 25^\circ C$ $T_c = 25^\circ C$	P_c	1	W
		20	W
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55 to +150	$^\circ C$

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditions	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	t_r				1	μs
Switching storage time	t_{stg}				4.0	μs
Switching fall time	t_f				1	μs