

2SC3403

Silicon PNP Triple-Diffused Planar Type

High Breakdown Voltage, High Speed Switching

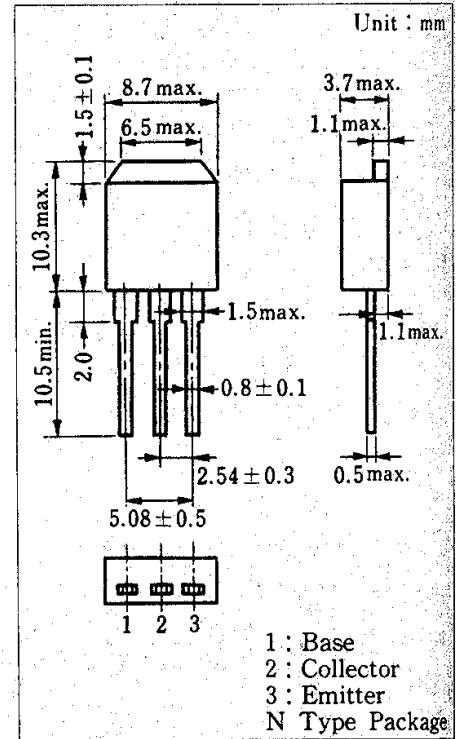
■ Features

- High speed switching
- Low collector-emitter saturation voltage ($V_{CE(sat)}$)
- "N Type" package configuration with a cooling fin for direct soldering on PC board of a small-size electronic equipment

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

Item	Symbol	Value	Unit	
Collector-base voltage	V_{CBO}	500	V	
Collector-emitter voltage	V_{CEO}	400	V	
Emitter-base voltage	V_{EBO}	7	V	
Peak collector current	I_{CP}	4	A	
Collector current	I_C	2	A	
Collector power dissipation	P_C	$T_c=25^\circ\text{C}$	25	W
		$T_a=25^\circ\text{C}$	1.3	
Junction temperature	T_j	150	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 ~ +150	$^\circ\text{C}$	

■ Package Dimensions



*Surface-mount type is also available. (Refer to p.82.)

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

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CBO}	$V_{CB}=500\text{ V}, I_E=0$			100	μA
Emitter cutoff current	I_{EBO}	$V_{EB}=5\text{ V}, I_C=0$			100	μA
Collector-emitter voltage	$V_{CEO(sus)}$	$I_C=0.2\text{ A}, L=25\text{ mH}$	400			V
DC current gain	h_{FE1}	$V_{CE}=5\text{ V}, I_C=0.1\text{ A}$	15			
	h_{FE2}	$V_{CE}=5\text{ V}, I_C=1\text{ A}$	8			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=1\text{ A}, I_B=0.2\text{ A}$			1	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=1\text{ A}, I_B=0.2\text{ A}$			1.5	V
Transition frequency	f_T	$V_{CE}=10\text{ V}, I_C=0.2\text{ A}, f=1\text{ MHz}$	8			MHz
Turn-on time	t_{on}	$I_C=1\text{ A}$			1	μs
Storage time	t_{stg}	$I_{B1}=0.2\text{ A}, I_{B2}=-0.2\text{ A}$			3	μs
Fall time	t_f	$V_{CC}=150\text{ V}$			1	μs

* $V_{CEO(sus)}$ Test method

