Power Transistons

#### 专业PCB打样工了25C3824, 25C3824A 捷多邦

# 2SC3824, 2SC3824A

Silicon PNP Triple-Diffused Planar Type

High Breakdown Voltage, High Speed Switching

### Features

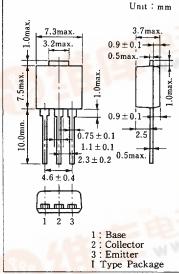
- High speed switching
- High collector-base voltage (V<sub>CBO</sub>)
- "I Type" package configuration with a cooling fin for direct soldering on PC board of a small-size electronic equipment

Item		Symbol Value		Unit	
Collector- base voltage	2SC3824	37	900		
	2SC3824A	Vсво	900	V	
Collector-emitter voltage		VCES	900	V	
Collector-	2SC3824	17	800	v	
emitter voltage	2SC3824A	V <sub>CEO</sub>	900		
Emitter-base voltage		VEBO	7	V	
Peak collector current		I <sub>CP</sub>	2	A	
Collector current		Ic	1	А	
Collector power dissipation	Tc=25 ℃	Pc	15	W	
	Ta=25℃	гc	1.3		
Junction temperature		Τ,	150	°C	
Storage temperature		Tstg	$-55 \sim +150$	°C	

# Absolute Maximum Batings (Tc=25°C)

#### Package Dimensions

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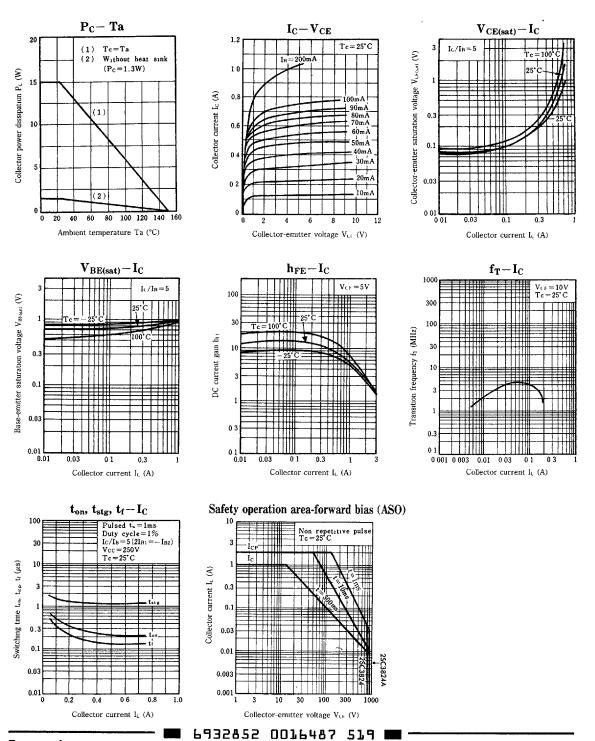
Surface-mount type is also available. (Refer to p.81.)

# ■ Electrical Characteristics (Tc=25°C)

Item		Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current		Ісво	$V_{CB} = 900 \text{ V}, I_E = 0$			50	μA
Emitter cutoff current		I <sub>EBO</sub>	$V_{EB} = 7 V, I_C = 0$			50	μA
Collector- emitter voltage	2SC3824	V <sub>CEO</sub>	$I_{\rm C} = 1  \mathrm{mA}, \ I_{\rm B} = 0$	800			v
	2SC3824A		$I_C = 1 \text{ mA}, I_B = 0$	900			
DC current gain		h <sub>FE1</sub>	$V_{CE} = 5 V, I_C = 0.05 A$	6			
		h <sub>FE2</sub>	$V_{CE} = 5 V, I_C = 0.5 A$	3			1
Collector-emitter saturation voltage		V <sub>CE(sat)</sub>	$I_{\rm C} = 0.2  \text{A}, \ I_{\rm B} = 0.04  \text{A}$			1.5	V
Base-emitter saturation voltage		VBE(sat)	$I_{\rm C} = 0.2  \text{A}, \ I_{\rm B} = 0.04  \text{A}$			1	V
Transition frequency		fT	$V_{CE} = 10V, I_C = 0.05A, f = 1MHz$		4		MHz
Turn-on time		ton	$I_{\rm C} = 0.2  {\rm A}$			1	μs
Storage time		tsig	$I_{B1} = 0.04 \text{ A}, I_{B2} = -0.08 \text{ A}$			3	μs
Collector current fall time tr		tr	$V_{CC} = 250 V$			1	μs
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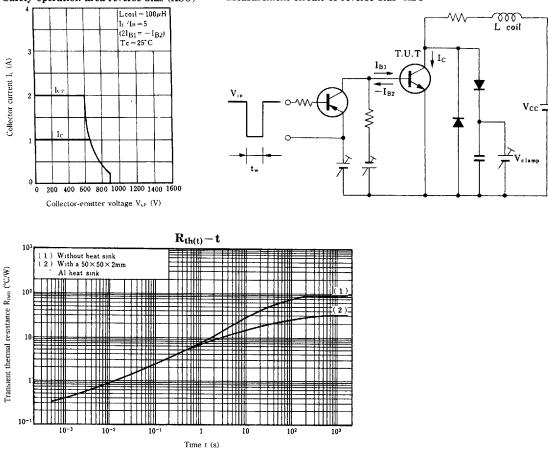
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#### Safety operation area-reverse bias (ASO)

Measurement circuit of reverse bias ASO

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