

# 2SC1473, 2SC1473A

## Silicon NPN triple diffusion planar type

For general amplification

2SC1473 complementary to 2SA1018

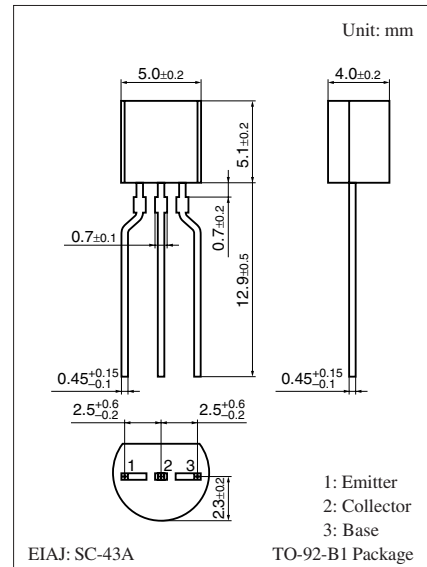
2SC1473A complementary to 2SA1767

### ■ Features

- High collector-emitter voltage (Base open)  $V_{CE0}$
- High transition frequency  $f_T$

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	2SC1473	$V_{CBO}$	250	V
	2SC1473A		300	
Collector-emitter voltage (Base open)	2SC1473	$V_{CEO}$	200	V
	2SC1473A		300	
Emitter-base voltage (Collector open)	$V_{EBO}$	7	V	
Collector current	$I_C$	70	mA	
Peak collector current	$I_{CP}$	100	mA	
Collector power dissipation	$P_C$	750	mW	
Junction temperature	$T_j$	150	$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$	



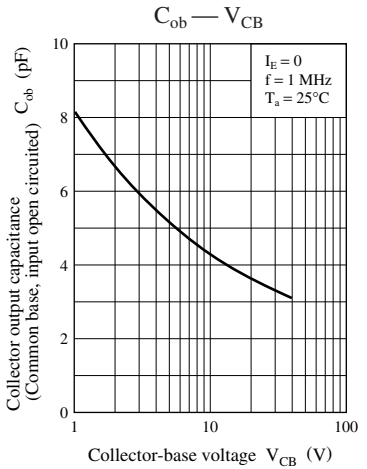
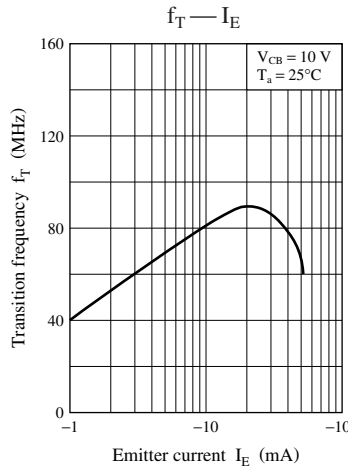
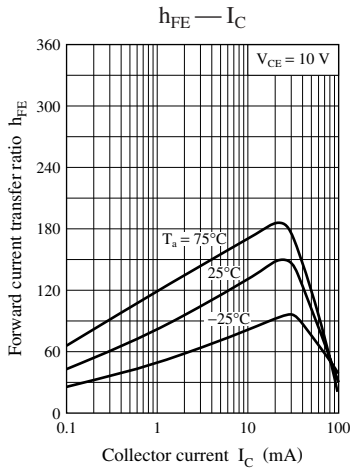
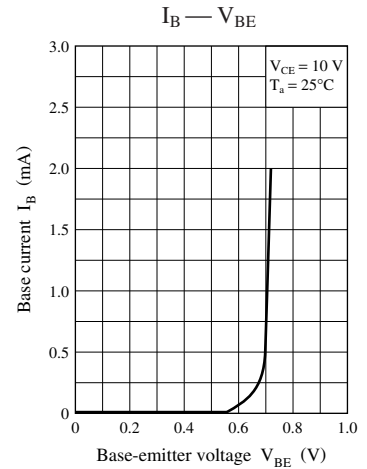
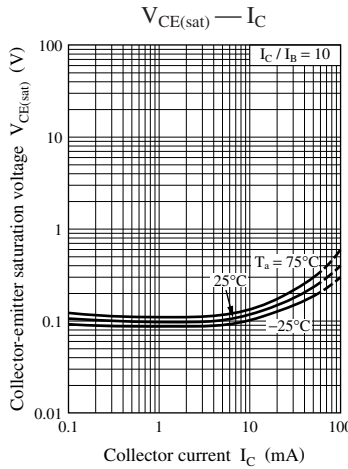
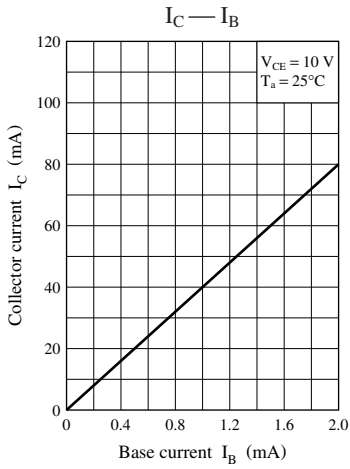
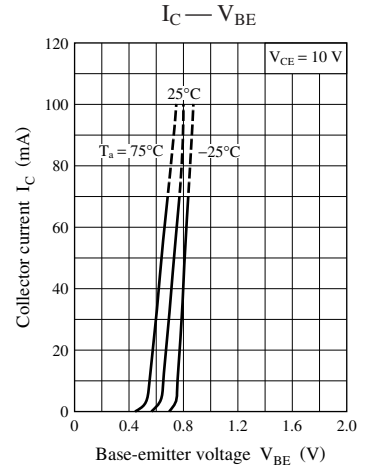
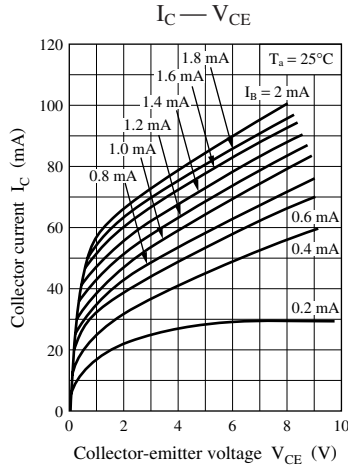
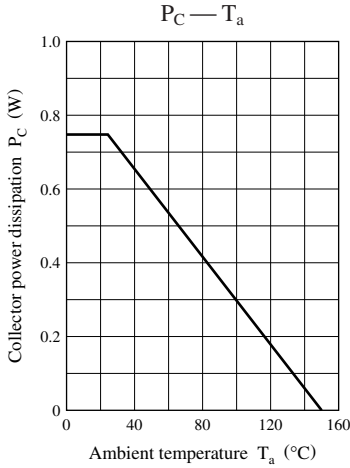
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

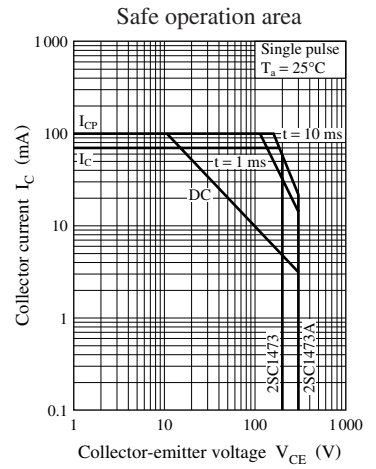
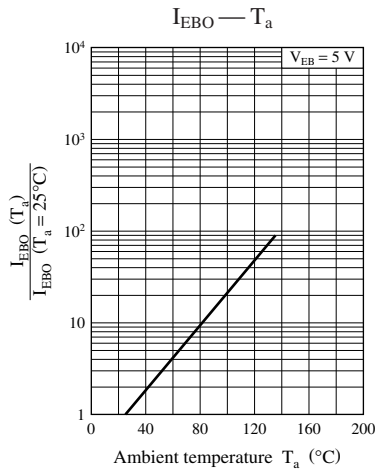
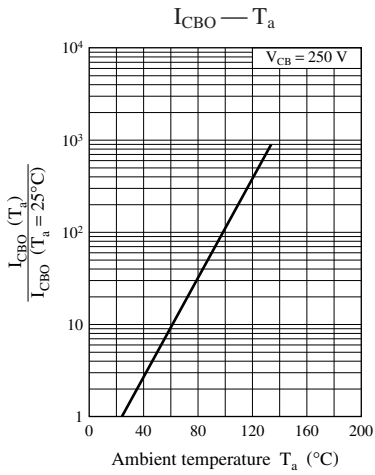
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-emitter voltage (Base open)	2SA1473	$I_C = 100 \mu\text{A}, I_B = 0$	200			V
	2SA1473A		300			
Emitter-base voltage (Collector open)	$V_{EBO}$	$I_E = 1 \mu\text{A}, I_C = 0$	7			V
Collector-emitter cutoff current (Base open)	2SA1473	$V_{CE} = 120 \text{ V}, T_a = 60^\circ\text{C}, I_B = 0$			1	$\mu\text{A}$
	2SA1473A				1	
Forward current transfer ratio *	$h_{FE}$	$V_{CE} = 10 \text{ V}, I_C = 5 \text{ mA}$	60		220	—
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 50 \text{ mA}, I_B = 5 \text{ mA}$			1.2	V
Transition frequency	$f_T$	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$	50	80		MHz
Collector output capacitance (Common base, input open circuited)	$C_{ob}$	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			10	pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. \*: Rank classification

Rank	Q	R
$h_{FE}$	60 to 150	100 to 220





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