#### Transistors

## Panasonic

# 2SC1473, 2SC1473A

Silicon NPN triple diffusion planar type

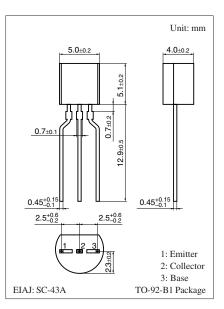
For general amplification 2SC1473 complementary to 2SA1018 2SC1473A complementary to 2SA1767

#### Features

- $\bullet$  High collector-emitter voltage (Base open)  $V_{\text{CEO}}$
- High transition frequency  $f_T$

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

Parameter	Symbol	Rating	Unit	
Collector-base voltage	2SC1473	V <sub>CBO</sub>	250	V
(Emitter open)	2SC1473A		300	
Collector-emitter voltage	2SC1473	V <sub>CEO</sub>	200	V
(Base open)	2SC1473A		300	
Emitter-base voltage (Coll	V <sub>EBO</sub>	7	V	
Collector current	I <sub>C</sub>	70	mA	
Peak collector current	I <sub>CP</sub>	100	mA	
Collector power dissipatio	P <sub>C</sub>	750	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	



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

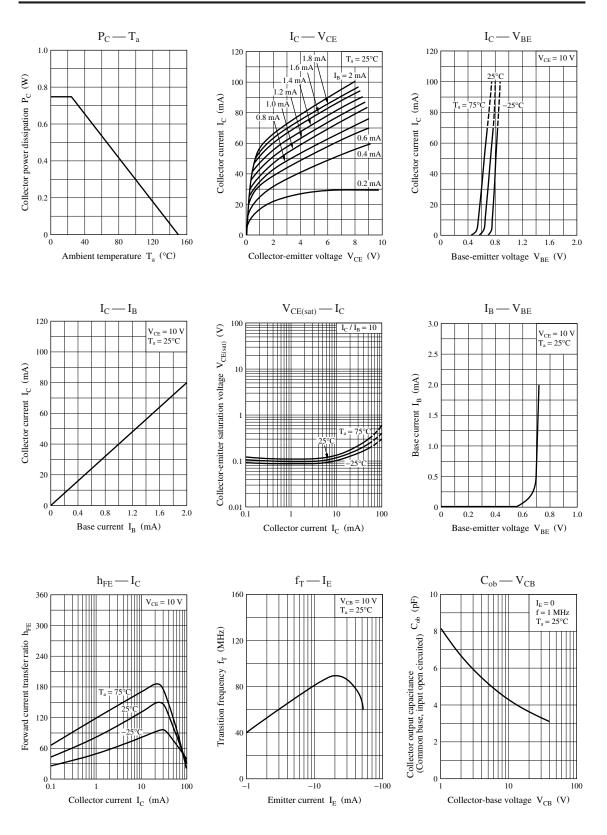
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage	2SA1473	V <sub>CEO</sub>	$I_{C} = 100 \ \mu A, I_{B} = 0$	200			V
(Base open)	2SA1473A			300			
Emitter-base voltage (Collector open)		V <sub>EBO</sub>	$I_E = 1 \ \mu A, \ I_C = 0$	7			V
Collector-emitter cutoff	2SA1473	I <sub>CEO</sub>	$V_{CE} = 120 \text{ V},  T_a = 60^{\circ}\text{C},  I_B = 0$			1	μΑ
current (Base open)	2SA1473A		$V_{CE} = 120 \text{ V}, I_B = 0$			1	
Forward current transfer rat	io *	h <sub>FE</sub>	$V_{CE} = 10 \text{ V}, I_C = 5 \text{ mA}$	60		220	—
Collector-emitter saturation	voltage	V <sub>CE(sat)</sub>	$I_{C} = 50 \text{ mA}, I_{B} = 5 \text{ mA}$			1.2	V
Transition frequency		f <sub>T</sub>	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$	50	80		MHz
Collector output capacitance		C <sub>ob</sub>	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			10	pF
(Common base, input open circuited)							

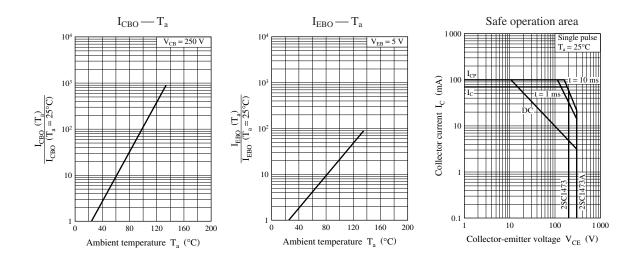
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. \*: Rank classification

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

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