

# 2SA1018

### Silicon PNP epitaxial planar type

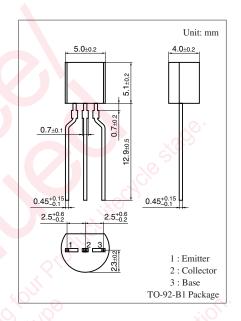
For general amplification Complementary to 2SC1473

#### ■ Features

ullet High collector-emitter voltage (Base open)  $V_{CEO}$ 

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	$V_{CBO}$	-250	V	
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-200	V	
Emitter-base voltage (Collector open)	$V_{EBO}$	-5	V	
Collector current	$I_{C}$	-70	mA	
Peak collector current	$I_{CP}$	-100	mA	
Collector power dissipation	$P_{C}$	750	mW	
Junction temperature	T <sub>j</sub>	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	



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

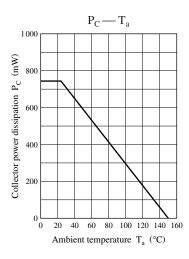
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = -100 \mu\text{A},  I_{\rm B} = 0$	-200	25		V
Emitter-base voltage (Collector open)	$V_{EBO}$	$I_E = -1  \mu A,  I_C = 0$	-5			V
Collector-emitter cut-off current (Base open)	$I_{CEO}$	$V_{CE} = -120 \text{ V}, I_B = 0$	1.9		-1	μΑ
Forward current transfer ratio *	$h_{FE}$	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	60		220	_
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -50 \text{ mA}, I_B = -5 \text{ mA}$			-1.5	V
Transition frequency	$f_T$	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$	50			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)		is white				

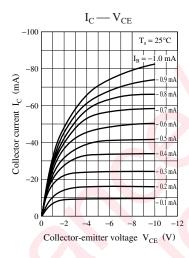
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

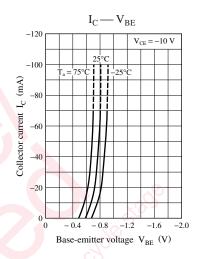
#### 2. \*: Rank classification

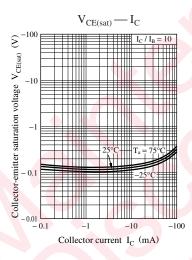
Rank	Q	R
$h_{\mathrm{FE}}$	60 to 150	100 to 220

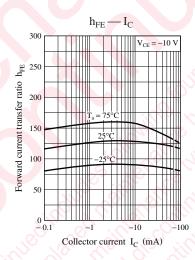
## **Panasonic**

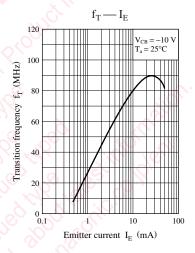


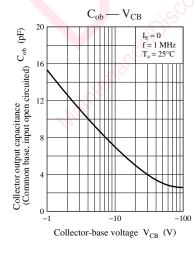


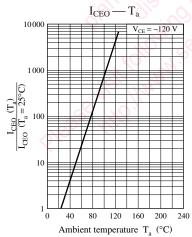












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