Transistor Panasonic

2SC1573, 2SC1573A, 2SC1573B

Silicon NPN triple diffusion planer type

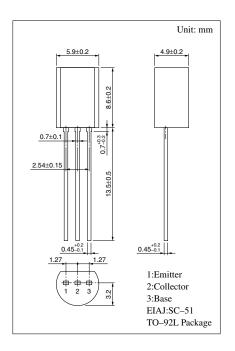
For high breakdown voltage general amplification For small TV video output

Complementary to 2SC1573 and 2SA0879 (2SA879)

Features

- High collector to emitter voltage V_{CEO}.
- High transition frequency f_T.
- Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit	
Collector to base voltage	2SC1573		250	V	
	2SC1573A	V_{CBO}	300		
	2SC1573B		400		
Collector to emitter voltage	2SC1573		200		
	2SC1573A	V_{CEO}	300	V	
	2SC1573B		400		
Emitter to base voltage		V_{EBO}	7	V	
Peak collector current		I_{CP}	100	mA	
Collector current		I_C	70	mA	
Collector power dissipation		P_{C}	1	W	
Junction temperature		T _j	150	°C	
Storage temperature		T_{stg}	−55 ~ +150	°C	



Electrical Characteristics (Ta=25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I_{CBO}	$V_{CB} = 12V, I_E = 0$			2	μΑ
Collector to emitter voltage	2SC1573		$I_{\rm C} = 100 \mu {\rm A}, I_{\rm B} = 0$	200			
	2SC1573A	V_{CEO}		300			V
	2SC1573B			400]
Emitter to base voltage	2SC1573	$ m V_{EBO}$	$I_E = 1\mu A, I_C = 0$	5			
	2SC1573A			7			V
	2SC1573B						
Forward current transfer ratio		h _{FE} *	$V_{CE} = 10V, I_{C} = 5mA$	30		220	
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = 50 \text{mA}, I_{\rm B} = 5 \text{mA}$			1.2	V
Transition frequency		f_T	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$	50	80		MHz
Collector output capacitance	2SC1573	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		5	10	
	2SC1573A			4		8	pF
	2SC1573B				4		

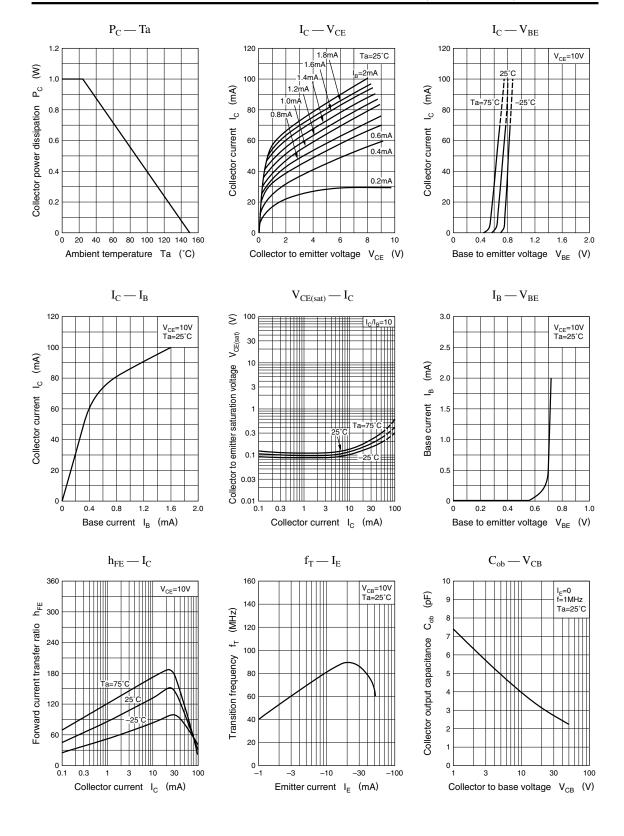
*hFE Rank classification

Rank	P	Q	R
h_{FE}	30 ~ 100	60 ~ 150	100 ~ 220

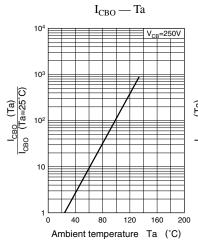
^{*2}SC1573 for Ranks Q and R only

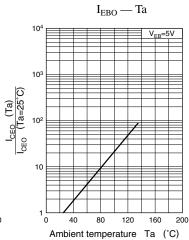
Note.) The Part numbers in the Parenthesis show conventional part number.

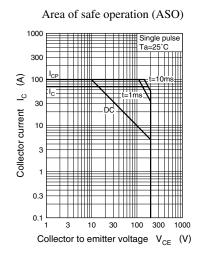
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