2SC1573, 2SC1573A, 2SC1573B

Silicon NPN triple diffusion planar type

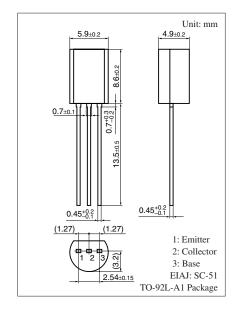
For high breakdown voltage general amplification For small TV video output Complementary to 2SC1573 and 2SA0879

■ Features

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

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage	2SC1573	V _{CBO}	250	V
(Emitter open)	2SC1573A		300	
	2SC1573B		400	
Collector-emitter voltage	2SC1573	V _{CEO}	200	V
(Base open)	2SC1573A		300	
	2SC1573B		400	
Emitter-base voltage	2SC1573	V_{EBO}	5	V
(Collector open)	2SC1573A		7	
	2SC1573B			
Collector current	I_C	70	mA	
Peak collector current	I_{CP}	100	mA	
Collector power dissipation	P_{C}	1	W	
Junction temperature	T_j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



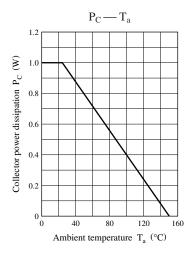
\blacksquare Electrical Characteristics $~T_a = 25^{\circ}C \pm 3^{\circ}C$

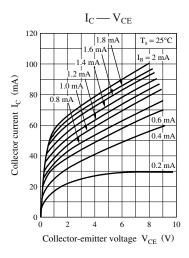
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage	2SC1573	V _{CEO}	$I_C = 100 \ \mu A, I_B = 0$	200			V
(Base open)	2SC1573A			300			
	2SC1573B			400			
Emitter-base voltage	2SC1573	V_{EBO}	$I_E = 1 \mu A, I_C = 0$	5			V
(Collector open)	2SC1573A			7			
	2SC1573B			7			
Collector-base cut-off current	2SC1573	I_{CBO}	$V_{CB} = 12 \text{ V}, I_{E} = 0$			2	μΑ
(Emitter open)	2SC1573A						
	2SC1573B		$V_{CB} = 200 \text{ V}, I_{E} = 0$			10	
Forward current transfer ratio	2SC1573	h _{FE} *	$V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ mA}$	60		220	_
	2SC1573A			30		220	
	2SC1573B						
Collector-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	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$	50	80		MHz
Collector output capacitance	2SC1573	C _{ob}	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$		5	10	pF
(Common base, input	2SC1573A				4	8	
open circuited)	2SC1573B				4	8	

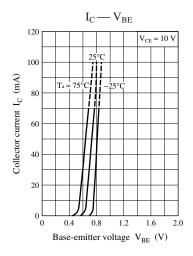
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

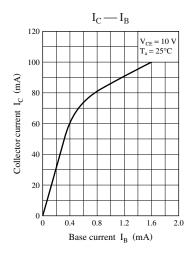
2. *: Rank classification (2SC1573 for ranks Q and R only)

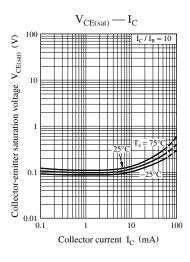
Rank	Р	Q	R
h_{FE}	30 to 100	60 to 150	100 to 220

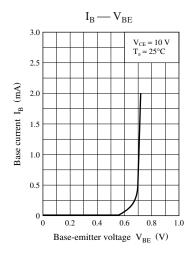


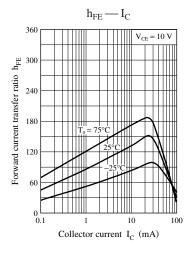


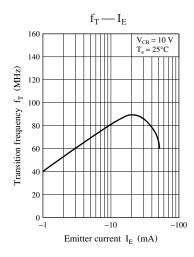


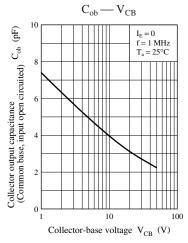


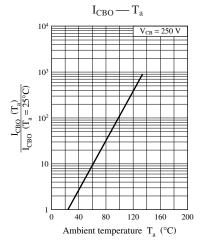


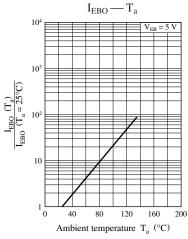


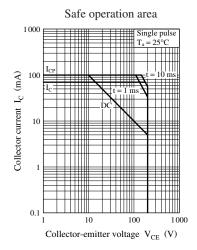












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