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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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2SC1573, 2SC1573A, 2SC1573B

Silicon NPN triple diffusion planar type

For high breakdown voltage general amplification

For small TV video output

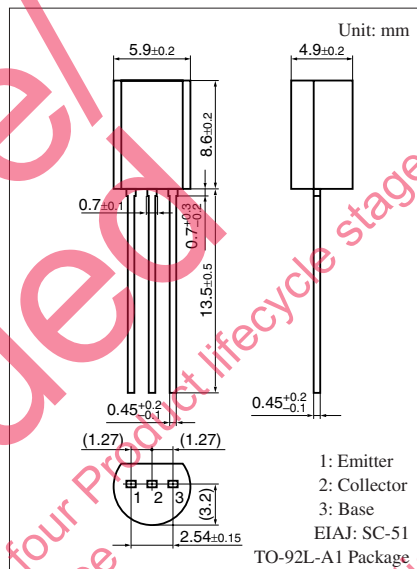
Complementary to 2SC1573 and 2SA0879

■ Features

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

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	2SC1573	250	V
	2SC1573A	300	
	2SC1573B	400	
Collector-emitter voltage (Base open)	2SC1573	200	V
	2SC1573A	300	
	2SC1573B	400	
Emitter-base voltage (Collector open)	2SC1573	5	V
	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	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



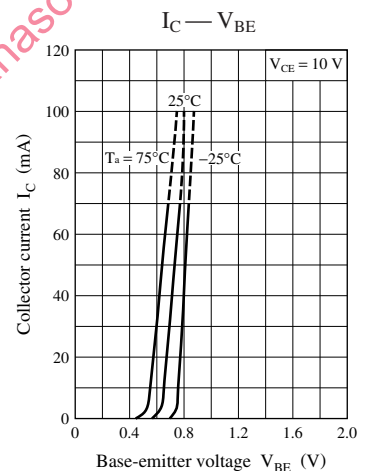
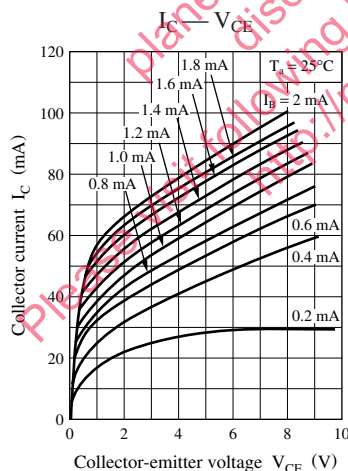
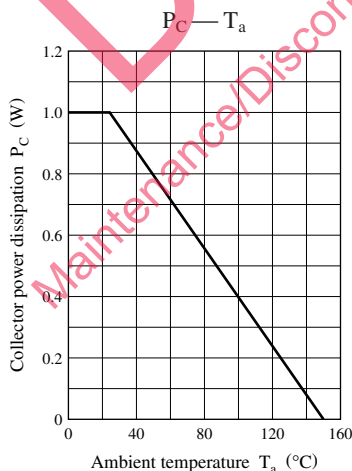
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

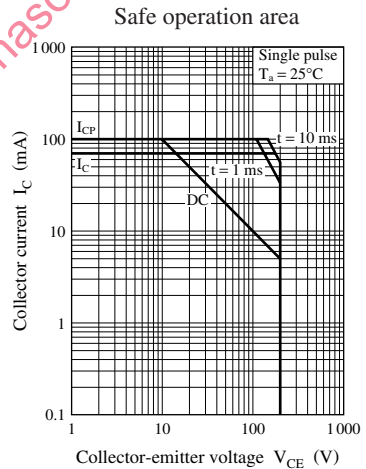
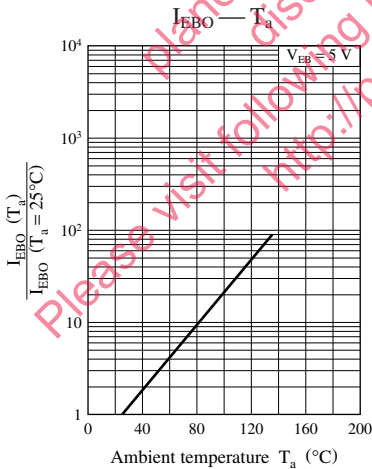
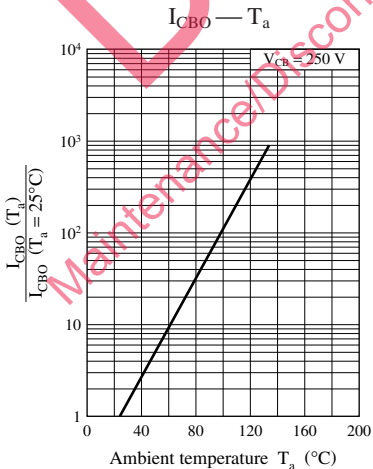
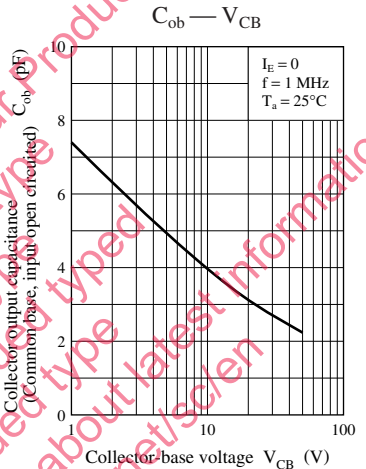
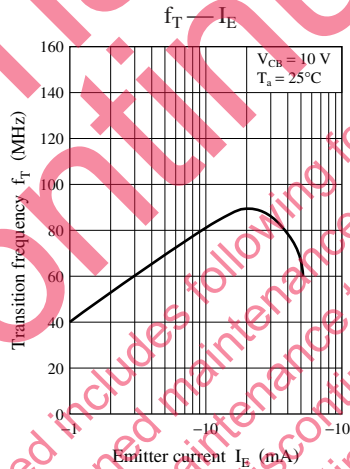
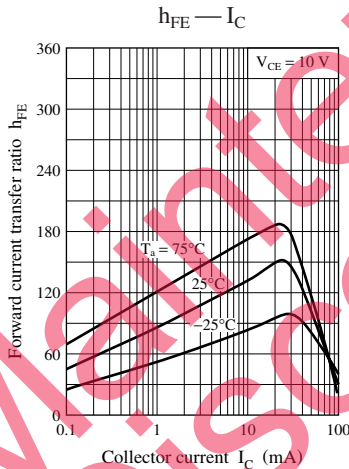
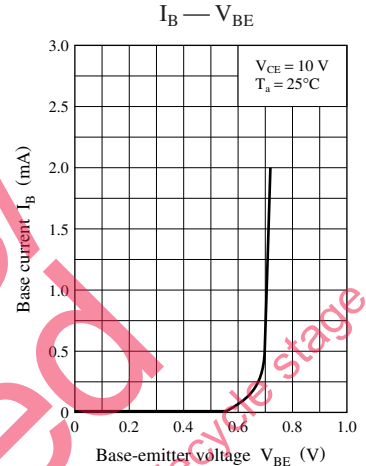
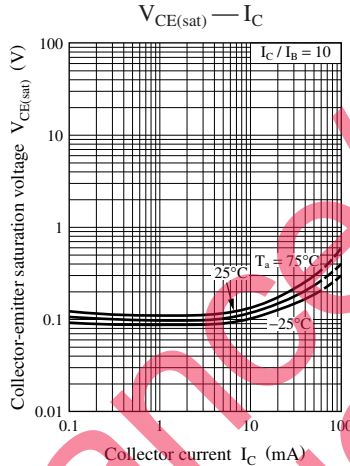
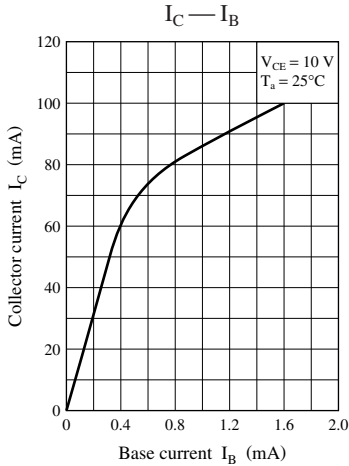
Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Collector-emitter voltage (Base open)	2SC1573	V_{CEO}	$I_C = 100 \mu\text{A}, I_B = 0$	200			V
	2SC1573A			300			
	2SC1573B			400			
Emitter-base voltage (Collector open)	2SC1573	V_{EBO}	$I_E = 1 \mu\text{A}, I_C = 0$	5			V
	2SC1573A			7			
	2SC1573B			7			
Collector-base cut-off current (Emitter open)	2SC1573	I_{CBO}	$V_{CB} = 12 \text{ V}, I_E = 0$			2	μA
	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		$V_{CE(sat)}$	$I_C = 50 \text{ mA}, I_B = 5 \text{ mA}$			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)	2SC1573	C_{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		5	10	pF
	2SC1573A				4	8	
	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	P	Q	R
h_{FE}	30 to 100	60 to 150	100 to 220





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