2SC1573, 2SC1573A, 2SC1573B

Silicon NPN triple diffusion planar type

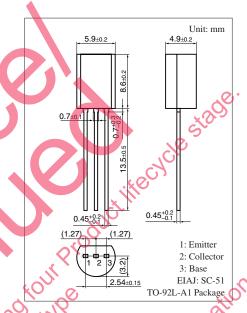
For high breakdown voltage general amplification For small TV video output Complementary to 2SC1573 and 2SA0879

■ Features

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

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

Parameter		Symbol	Rating	Unit				
Collector-base voltage	2SC1573	V _{CBO}	250	V		0.45 ^{+0.2}	0.45 ^{+0.2} _{-0.1}	!
(Emitter open)	2SC1573A		300			(1.27)	1.27)	1: Emitter
	2SC1573B		400			1 2 3	না	2: Collector
Collector-emitter voltage	2SC1573	V _{CEO}	200	V	W.		(3) (6) .54±0.15	3: Base EIAJ: SC-51
(Base open)	2SC1573A		300		KO	Q	TO-92L	-A1 Package
	2SC1573B		400	• • • • • • • • • • • • • • • • • • • •	0 x1	6		~0
Emitter-base voltage	2SC1573	V_{EBO}	5	V N	``~@``	,	5	de
(Collector open)	2SC1573A		7	MO.	~ (O	o, o		0.
	2SC1573B			60.00	o. M.	"A)	11	•
Collector current		$I_{\rm C}$	70	mA	20° (so so	XO2	
Peak collector current		I_{CP}	100	mA 7		: Ab.	10, 10,	
Collector power dissipation	n	P _C	100 ×	We	OLIV.	ilo Os	Jego,	
Junction temperature		Tj	150	160		300 ·	eil	
Storage temperature		T _{stg}	-55 to +150	C C	Jill.	(O)		
Storage temperature	Discor	6	ease vis	it follow	ing an	asoniu	EJ.54±0.15 TO-92L	

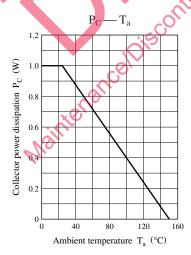


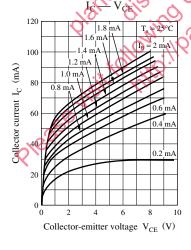
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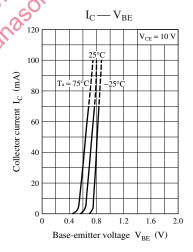
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

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						XOS
	2SC1573B		$V_{CB} = 200 \text{ V}, I_{E} = 0$		7	10	5
Forward current transfer ratio	2SC1573	h _{FE} *	$V_{CE} = 10 \text{ V}, I_C = 5 \text{ mA}$	60		220	
	2SC1573A			30	10	220	
	2SC1573B				like		
Collector-emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = 50 \text{ mA}, I_{\rm B} = 5 \text{ mA}$		3	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}	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	(0	5	10	pF
(Common base, input	2SC1573A				4	8	
open circuited)	2SC1573B		400		4	8	.00.
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 10 C 0 60 10							

Rank	Р	Q	R NC
h _{FE}	30 to 100	60 to 150	100 to 220

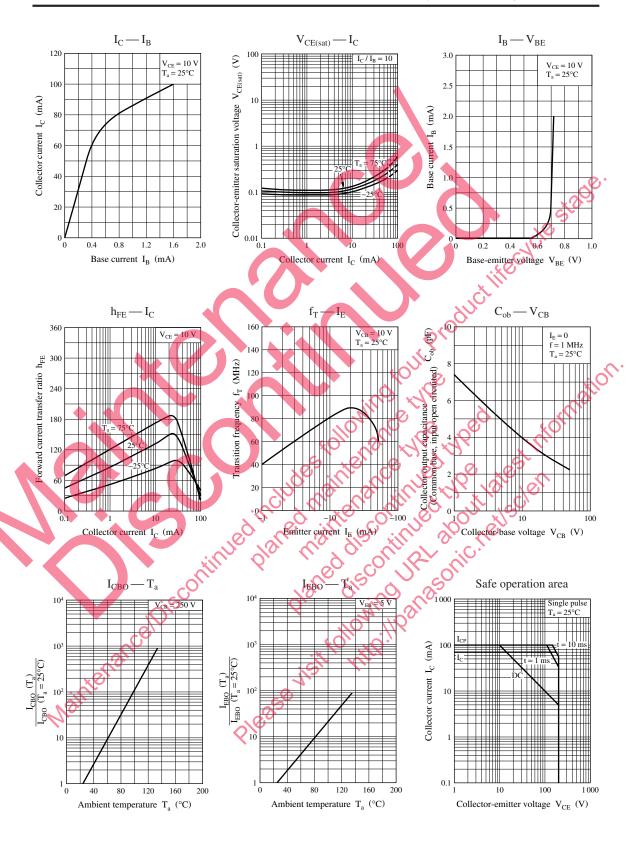






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