2SC1473, 2SC1473A

Silicon NPN triple diffusion planer type

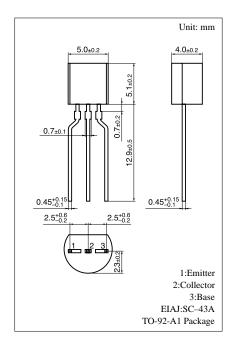
For general amplification 2SC1473 complementary to 2SA1018 2SC1473A complementary to 2SA1767

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	2SC1473	V	250	V	
base voltage	2SC1473A	V_{CBO}	300		
Collector to	2SC1473	3.7	200		
emitter voltage	2SC1473A	V_{CEO}	300	V	
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}	750	mW	
Junction temperature		T_{j}	150	°C	
Storage temperature		$T_{\rm stg}$	−55 ~ +150	°C	



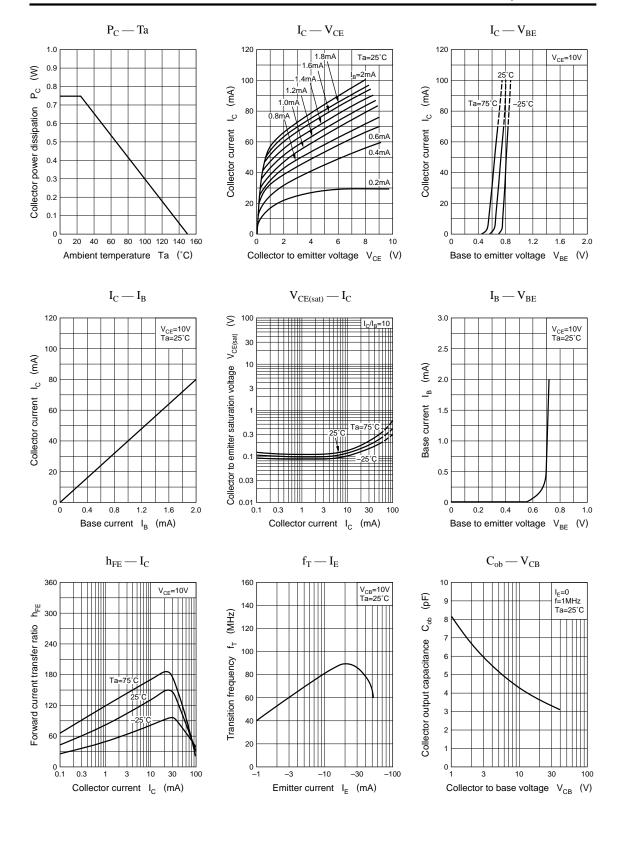
Electrical Characteristics (Ta=25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SC1473	т	$V_{CE} = 120V, I_{B} = 0$			1	μА
current	2SC1473A	I _{CEO}	$V_{CE} = 120V, I_{B} = 0$			1	
Collector to emitter	2SC1473	37	$I_C = 100 \mu A, I_C = 0$	200			V
voltage	2SC1473A	V_{CEO}		300			
Emitter to base voltage		V _{EBO}	$I_E = 1 \mu A, I_C = 0$	7			V
Forward current transfer ratio		h _{FE} *	$V_{CE} = 10V, I_{C} = 5mA$	30		220	
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{C} = 50\text{mA}, I_{B} = 5\text{mA}$			1.2	V
Transition frequency		f_{T}	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$		80		MHz
Collector output capacitance		C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$			10	pF

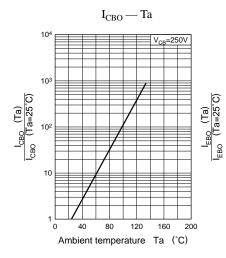
*h_{FE} Rank classification

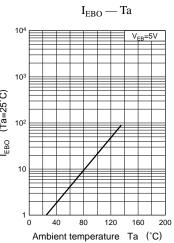
Rank	P	Q	R
h_{FE}	30 ~ 100	60 ~ 150	100 ~ 220

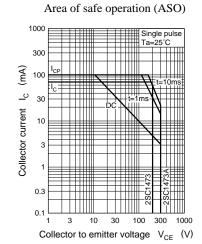
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