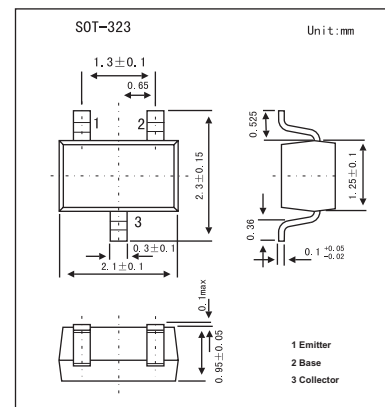


## General Purpose Transistor

## 2SA1576A

## ■ Features

- Excellent hFE linearity.

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

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CB0}$	-60	V
Collector-emitter voltage	$V_{CE0}$	-50	V
Emitter-base voltage	$V_{EB0}$	-6	V
Collector current	$I_C$	-0.15	A
Collector power dissipation	$P_C$	0.2	W
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$BV_{CB0}$	$I_C = -50\mu\text{A}$	-60			V
Collector-emitter breakdown voltage	$BV_{CE0}$	$I_C = -1\text{mA}$	-50			V
Emitter-base breakdown voltage	$BV_{EB0}$	$I_E = -50\mu\text{A}$	-6			V
Collector cutoff current	$I_{CBO}$	$V_{CB} = -60\text{V}$			-0.1	$\mu\text{A}$
Emitter cutoff current	$I_{EBO}$	$V_{EB} = -6\text{V}$			-0.1	$\mu\text{A}$
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C/I_B = -50\text{mA}/-5\text{mA}$			-0.5	V
DC current transfer ratio	hFE	$V_{CE} = -6\text{V}, I_C = -1\text{mA}$	120		560	
Transition frequency	$f_T$	$V_{CE} = -12\text{V}, I_E = 2\text{mA}, f = 30\text{MHz}$		140		MHz
Output capacitance	$C_{ob}$	$V_{CB} = -12\text{V}, I_E = 0\text{A}, f = 1\text{MHz}$		4.0	5.0	pF

## ■ hFE Classification

Marking	FQ	FR	FS
hFE	120~270	180~390	270~560