

## SOT-323 Plastic-Encapsulated Transistors

### 2SA1576A TRANSISTOR (PNP)

#### FEATURES

Power dissipation

$$P_{CM} : 200 \text{ mW (Tamb=25°C)}$$

Collector current

$$I_{CM} : -150 \text{ mA}$$

Collector-base voltage

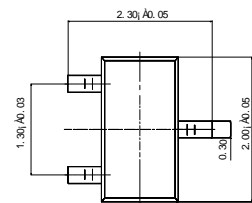
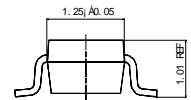
$$V_{(BR)CBO} : -60 \text{ V}$$

Operating and storage junction temperature range

$$T_J, T_{stg}: -55°C \text{ to } +150°C$$

#### SOT-323

1. BASE
2. EMITTER
3. COLLECTOR



Unit: mm

#### ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -50\mu A, I_E = 0$	-60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -50\mu A, I_C = 0$	-6			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -60V, I_E = 0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -6V, I_C = 0$			-0.1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE} = -6V, I_C = -1mA$	120		560	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -50mA, I_B = -5mA$			-0.5	V
Transition frequency	$f_T$	$V_{CE} = -12V, I_C = -2mA, f = 30MHz$		100		MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = -12V, I_E = 0, f = 1MHz$		5		pF

#### CLASSIFICATION OF $h_{FE(1)}$

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	FQ	FR	FS