

## **S8050**

## TRANSISTOR (PNP)

**FEATURES** 

Power dissipation

 $P_{CM}$ : 0.625 W(Tamb=25°C)

Collector current

 $I_{CM}$  : 0.5

Collector-base voltage

 $V_{(BR)CBO}$ : 40

3. COLLECTOR

1. EMITTER

2. BASE

TO-92

## **ELECTRICAL CHARACTERISTICS**( Tamb=25℃ unless otherwise specified )

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR) <sub>CBO</sub>	Ic= 100 μ A , I <sub>E</sub> =0	40			V
Collector-emitter breakdown voltage	V(BR) <sub>CEO</sub>	Ic= 0.1 mA , I <sub>B</sub> =0	25			V
Emitter-base breakdown voltage	V(BR) <sub>EBO</sub>	I <sub>E</sub> = 100 μ A , I <sub>C</sub> =0	5			V
Collector cut-off current	I <sub>CBO</sub>	$V_{CB} = 40  V$ , $I_{E} = 0$			0.1	μА
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> = 20 V , I <sub>B</sub> =0			0.1	μА
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5 V, I <sub>C</sub> =0			0.1	μА
DC current gain(note)	H <sub>FE(1)</sub>	V <sub>CE</sub> = 1 V, I <sub>C</sub> = 50mA	85		300	
DC current gam(note)	H <sub>FE(2)</sub>	V <sub>CE</sub> = 1 V, I <sub>C</sub> = 500mA	50			
Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50 mA			0.6	V
Base-emitter saturation voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50 mA			1.2	V
Base-emitter voltage	V <sub>BE</sub>	I <sub>E</sub> = 100mA			1.4	V
Transition frequency	f <sub>T</sub>	$V_{CE}$ = 6 V, $I_{C}$ = 20mA $f$ = 30MHz	150			MHz

## CLASSIFICATION OF H<sub>FE(1)</sub>

· -(1)				
Rank	В	С	D	
Range	85-160	120-200	160-300	

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