PRODUCT NAME : 2SA992 PNP General P
urpose Transistor

PRICE : Rs 20.00
SKU : RM2115

DESCRIPTION

Features

- Collector-Emitter Volt (Vceo): 120V
- Collector-Base Volt (Vcbo): 120V
- Collector Current (Ic): 0.05A
- hfe: 200-800 @ 1mA
- Power Dissipation (Ptot): 500mW
- Current-Gain-Bandwidth (ftotal): 100MHz
- Type: PNP

NEC

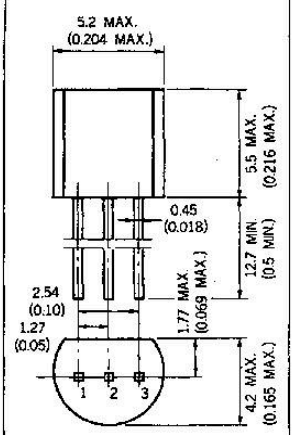
PNP SILICON TRANSISTOR
2SA992

DESCRIPTION The 2SA992 is best for use as the middle range amplifier in Hi-Fi stereo control amplifiers, power amplifiers, and etc.

FEATURES

- High Voltage. V_{CEO} : −120 V
- Low Output Capacitance. C_{ob} : 2.0 pF TYP. (V_{CB} = −30 V)
- High h_{FE}. h_{FE} : 500 TYP. (V_{CE} = −6.0 V, I_C = −1.0 mA)
- Super Low Noise. NV : 25 mV TYP. (See test circuit.)
- Complementary to 2SC1845.

PACKAGE DIMENSIONS
in millimeters (inches)



1. EMITTER
2. COLLECTOR
3. BASE

EIAJ : SC-43B
JEDEC : TO-92
IEC : PA33

ABSOLUTE MAXIMUM RATINGS

Maximum Temperatures
- Storage Temperature . . . . . −55 to +125 °C
- Junction Temperature . . . . . +125 °C Maximum

Maximum Power Dissipation (Ta = 25 °C)
- Total Power Dissipation . . . . . 500 mW

Maximum Voltages and Currents (Ta = 25 °C)
- V_{CBO} Collector to Base Voltage . . . . . −120 V
- V_{CEO} Collector to Emitter Voltage . . . . . −120 V
- V_{EBO} Emitter to Base Voltage . . . . . −5.0 V
- I_C Collector Current . . . . . −50 mA
- I_B Base Current . . . . . −10 mA

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

SYMBOL	CHARACTERISTIC	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
h_{FE1}	DC Current Gain	150	500		−	V_{CE} = −6.0 V, I_C = −0.1 mA
h_{FE2}	DC Current Gain	200	500	800	−	V_{CE} = −6.0 V, I_C = −1.0 mA
f_T	Gain Bandwidth Product	50	100		MHz	V_{CE} = −6.0 V, I_E = 1.0 mA
Cob	Output Capacitance		2.0	3.0	pF	V_{CB} = −30 V, I_E = 0, f = 1.0 MHz
NV	Noise Voltage		25	40	mV	V_{CE} = −5.0 V, I_C = −1.0 mA, R_G = 100 kΩ, G_V = 80 dB, f = 10 Hz to 1.0 kHz
I_{CBO}	Collector Cutoff Current			−50	nA	V_{CB} = −120 V, I_E = 0
I_{EBO}	Emitter Cutoff Current			−50	nA	V_{EB} = −5.0 V, I_C = 0
V_{BE}	Base to Emitter Voltage	−0.55	−0.61	−0.65	V	V_{CE} = −6.0 V, I_C = −1.0 mA
$V_{CE(sat)}$	Collector Saturation Voltage		−0.09	−0.30	V	I_C = −10 mA, I_B = −1.0 mA

Classification of h_{FE2}

Rank	P	F	E
Range	200 − 400	300 − 600	400 − 800

h_{FE} Test Conditions : V_{CE} = −6.0 V, I_C = −1.0 mA