

NPN SILICON TRANSISTOR

2SC2407

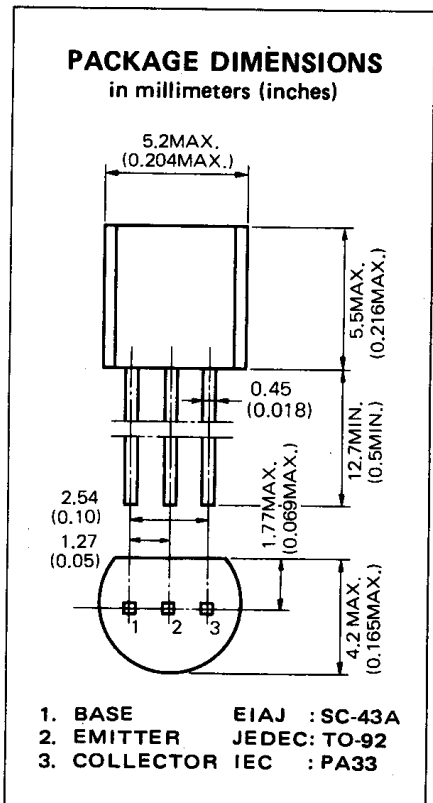
DESCRIPTION The 2SC2407 is designed for UHF and VHF amplifier.

FEATURES

- P_{out} : 160 mW TYP. @ $f=500$ MHz, $V_{CC}=12.6$ V
 $P_i=5$ mW (Class B)

ABSOLUTE MAXIMUM RATINGS

- Maximum Temperatures**
- Storage Temperature -65 to $+150$ °C
 - Junction Temperature $+150$ °C Maximum
- Maximum Power Dissipation ($T_a=25$ °C)**
- Total Power Dissipation 600 mW
- Maximum Voltages and Currents ($T_a=25$ °C)**
- V_{CBO} Collector to Base Voltage 35 V
 - V_{CEO} Collector to Emitter Voltage 18 V
 - V_{EBO} Emitter to Base Voltage 3.0 V
 - I_C Collector Current 150 mA
 - I_B Base Current 50 mA



ELECTRICAL CHARACTERISTICS ($T_a = 25$ °C)

SYMBOL	CHARACTERISTIC	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
h_{FE}	DC Current Gain	20	60	200		$V_{CE}=10$ V, $I_C=50$ mA
C_{ob}	Output Capacitance		1.0	2.0	pF	$V_{CB}=10$ V, $I_E=0$, $f=1.0$ MHz
P_{out}	Output Power	20	22		dBm	$V_{CC}=12.6$ V, $P_{in}=7$ dBm, $f=500$ MHz (Class B)
I_{CBO}	Collector Cutoff Current			0.5	μ A	$V_{CB}=20$ V, $I_E=0$
I_{EBO}	Emitter Cutoff Current			0.5	μ A	$V_{EB}=2.0$ V, $I_C=0$