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NPN SILICON TRANSISTOR

DESCRIPTION

2SC2408 is designed for High frequency Wide Band Amplifier.

FEATURES

: 21 dB TYP.

@200 MHz

: 2.4 dB TYP.

@200 MHz

ABSOLUTE MAXIMUM RATINGS

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Storage Temperature -65 to +150 °C Junction Temperature +150 °C Maximum Maximum Power Dissipation (Ta=25 °C) Total Power Dissipation 600 mW Maximum Voltages and Current (Ta=25 °C) Collector to Base Voltage 35 V_{CBO} Collector to Emitter Voltage 18 VCEO V_{EBO} Emitter to Base Voltage 3.0

PACKAGE DIMENSIONS in millimeters (inches) 5.2MAX, (0.204MAX, 0.45 (0.018)(0.10)1.27 (0.05) 1. BASE 2. EMITTER JEDEC: TO-92 3. COLLECTOR : PA33

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

1c

SYMBOL	CHARACTERISTIC	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
hFE	DC Current Gain	30	100	200	1007	V _{CE} =10 V, I _C =50 mA
fŢ	Gain Bandwidth Product		3.5		GHz	VcE=10 V, IE=50 mA
Cob	Output Capacitance		1.25	2.0	pF	V _{CB} =10 V, I _E =0, f=200 MHz
S _{21e} ²	Insertion Power Gain	18	21		dB	VCE=10 V, IC=50 mA, f=200 MHz RG=50 Ω
NF	Noise Figure		2.4	4.0	dB	V_{CE} =10 V, I_{C} =30 mA, f=200 MHz R_{G} =50 Ω
Ісво	Collector Cutoff Current			0.5	μΑ	V _{CB} =20 V, I _F =0
EBO	Emitter Cutoff Current			0.5	μΑ	V _{EB} =2.0 V, I _C =0