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Manufacturers of World Class Discrete Semiconductors

SE5035

NPN SILICON RF TRANSISTOR

JEDEC TO-72 CASE (BEC)

DESCRIPTION

The CENTRAL SEMICONDUCTOR SE5035 is a Silicon NPN Epitaxial Planar Transistor mounted in a hermetically sealed metal case designed for RF VHF amplifier applications.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNIT
Collector-Emitter Voltage	V _{CES}	40	V
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	4.0	V
Power Dissipation	P _D	200	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 TO +200	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	TYPICAL	MAX	UNIT
I _{CBO}	V _{CB} =30V			50	nA
BV _{CES}	I _C =100μA	40			V
BV _{CEO}	I _C =1.0mA	30			V
BV _{EBO}	I _E =100μA	4.0			V
V _{BE(ON)}	V _{CE} =10V, I _C =5.0mA			0.85	V
h _{FE}	V _{CE} =10V, I _C =5.0mA	40		180	
f _T	V _{CE} =10V, I _C =5.0mA, f=100MHz	600			MHz
C _{ob}	V _{CB} =10V, I _E =0			0.3	pF
NF	f=200MHz		2.0		dB
G _{PE}	V _{CC} =12V, f=200MHz		20		dB
C _{GE}	V _{CC} =12V, I _C =4.0mA, f _{in} =213MHz, f _{out} =45MHz		25		dB
PG	V _{CC} =12V, f=200MHz	22			dB