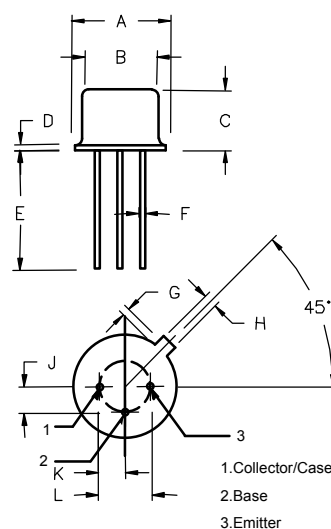


**DESCRIPTION**

A silicon NPN transistor, designed for VHF and UHF equipment. Applications include amplifier, pre-driver, driver, and output stages.

**FEATURES**

- Silicon NPN, TO-39 packaged VHF/UHF Transistor
- $f_t=3.0$  Ghz (typ) @ 300MHz, 14v, 90mA
- $G_{u\ max}=12.5$ dB (typ) @ 300 MHz, 15v, 40mA


**DIMENSIONS**

UNIT	A	B	C	D	E	F	G	H	J	K	L
mm	9.40	8.51	6.60	1.14	12.70	0.48	1.02	0.86	2.67	2.67	5.33
	8.89	8.00	6.10	0.38		0.41	0.74	0.71	2.41	2.41	4.83
inches	0.370	0.335	0.260	0.045	0.500	0.019	0.040	0.034	0.105	0.105	0.210
	0.350	0.315	0.240	0.015		0.016	0.029	0.028	0.095	0.095	0.190

**MAXIMUM RATINGS**

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Collector-Base Voltage	$V_{CBO}$	35	V
Collector-Emitter Voltage	$V_{CEO}$	20	V
Collector Current	$I_C$	200	mA
Emitter-Base Voltage	$V_{EBO}$	3	V
Collector Power Dissipation	$P_{DISS}$	1	W
Junction Temperature	$T_J$	-65 to 175	°C
Storage Temperature Range	$T_{STG}$	-65 to 175	°C

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=5mA, I_B=0$	20	-	-	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, V_{EB}=0$	35	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=0.1mA, I_C=0$	3	-	-	V
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=10V, I_E=0$	-	50	-	uA
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=50mA$	20	-	200	
Current-Gain Bandwidth Product	$f_T$	$f=300MHz, I_C=90mA, V_{CE}=14V$	-	3	-	GHz
Output Capacitance	$C_{ob}$	$f=1.0MHz, V_{CB}=10V$	-	3.5	-	pf
Maximum Unilateral Gain(1)	$G_{u\ max}$	$I_C=40mA, V_{CE}=15V, f=300\ MHz$	-	12.5	-	dB

Note : Above parameters , ratings , limits and conditions are subject to change.