

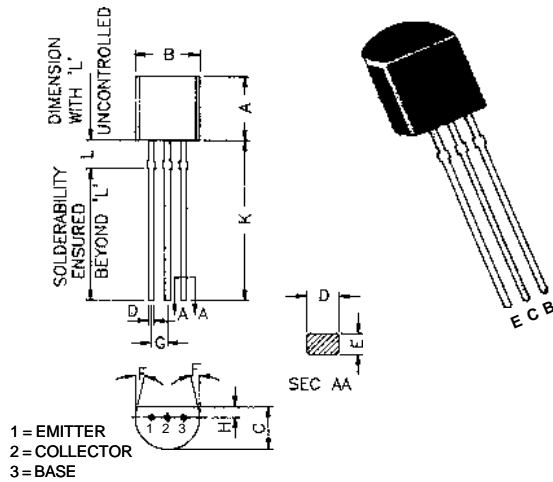
TO-92 Plastic Package

CSA733

PNP SILICON PLANAR EPITAXIAL TRANSISTOR

Low Frequency Amplifier

Complementary to CSC945



DIM	MIN	MAX
A	4,32	5,33
B	4,45	5,20
C	3,18	4,19
D	0,41	0,55
E	0,35	0,50
F	5 DEG	
G	1,14	1,40
H	1,14	1,53
K	12,70	–
L	1.982	2.082

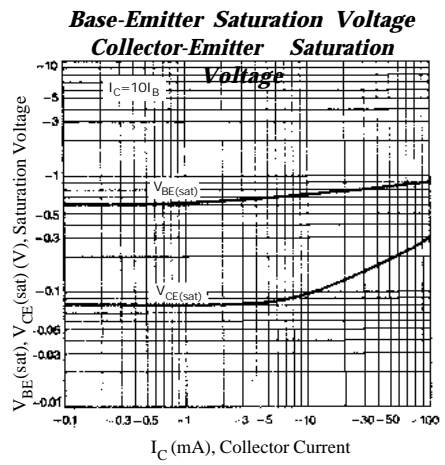
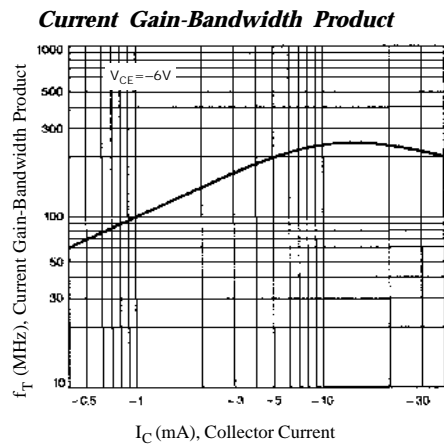
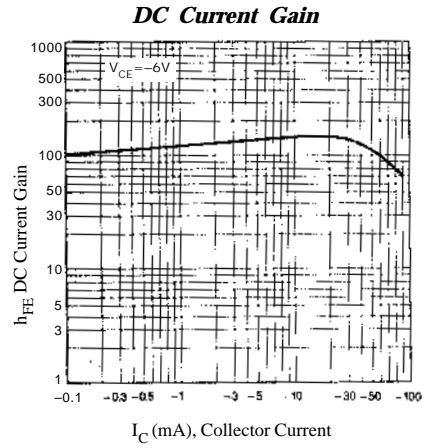
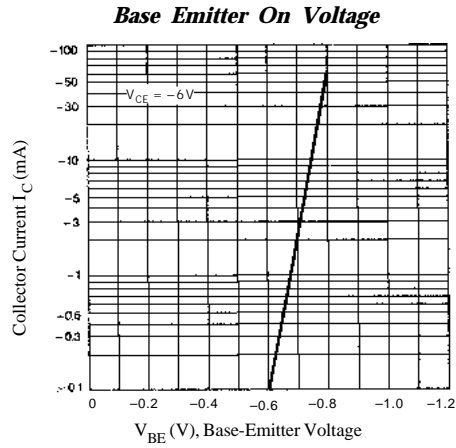
ALL DIMENSIONS IN M.M.

ABSOLUTE MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Base Voltage	BV_{CBO}	60	V
Collector-Emitter Voltage	BV_{CEO}	50	V
Emitter Base Voltage	BV_{EBO}	5	V
Collector Current (DC)	I_C	100	mA
Base Current (DC)	I_B	20	mA
Total Power Dissipation @ $T_{amb} = 25\text{ }^\circ\text{C}$	P_{tot}	500	mW
Operating Storage Junction Temperature Range	T_j, T_{stg}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25\text{ }^\circ\text{C}$ unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit
<i>Collector Emitter Breakdown Voltage</i> $I_C=1\text{mA}, I_B=0$	BV_{CEO}	50	-	-	V
<i>Collector Base Voltage</i> $I_C=100\mu\text{A}, I_E=0$	BV_{CBO}	60	-	-	V
<i>Emitter Base Voltage</i> $I_E=10\mu\text{A}, I_C=0$	BV_{EBO}	5	-	-	V
<i>Collector Cut-Off Current</i> $V_{CB}=60\text{V}, I_E=0$	I_{CBO}	-	-	0.1	μA
<i>Emitter Cut-Off Current</i> $V_{EB}=5\text{V}, I_C=0$	I_{EBO}	-	-	0.1	μA
<i>DC Current Gain</i> $V_{CE}=6\text{V}, I_C=1\text{mA}$	h_{FE}^*	90	-	600	
<i>Collector Emitter Saturation Voltage</i> $I_C=100\text{mA}, I_B=10\text{mA}$	$V_{CE(sat)}$	-	-	0.3	V
<i>Base Emitter On Voltage</i> $I_C=1\text{mA}, V_{CE}=6\text{V}$	$V_{BE(on)}$	0.6	-	0.7	V
DYNAMIC CHARACTERISTICS					
<i>Current-Gain Bandwidth Product</i> $V_{CE}=6\text{V}, I_C=10\text{mA}$	f_T	100	-	-	MHz
<i>Common Base Output Capacitance</i> $V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	C_{cb}	-	-	6	pF
<i>Noise Figure</i> $V_{CE}=6\text{V}, I_C=0.3\text{mA}$ $R_s=10\text{k}\Omega, f=100\text{Hz}$	NF	-	-	20	dB
h_{FE} CLASSIFICATION	R	Q	P	K	
	90-180	135=270	200-400	300-600	



Disclaimer

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