isc Silicon PNP Power Transistor 2SA1145

DESCRIPTION

- Low collector output capacitance
- High frequency
- Complement to 2SC2705
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

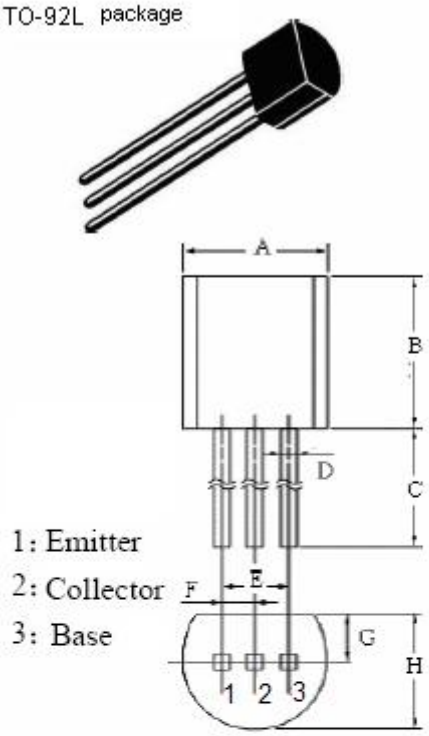
APPLICATIONS

- Audio frequency amplifier application

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-50	mA
P_C	Total Power Dissipation @ T_C=25℃	0.8	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

TO-92L package



DIM	mm	
	MIN	MAX
A	4.80	5.20
B	7.80	8.20
C	13.0	14.0
D	0.35	0.55
E	2.54	
F	1.27	
G	1.30	1.50
H	3.80	4.20

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -1mA; I_B= 0	-150			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -10mA; I_B= -1mA			-1	V
$V_{BE(on)}$	Base-Emitter Voltage	I_C= -10mA;V_{CE}= -5V			-0.8	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -150V; I_E= 0			-0.1	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-0.1	μA
h_{FE}	DC Current Gain	I_C= -10mA; V_{CE}= -5V	80		240	
f_T	Current-Gain—Bandwidth Product	I_C= -10mA; V_{CE}= -10V		200		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V; f= 1MHz		2.5		pF

◆ **h_{FE} Classifications**

O	Y
80-160	120-240

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