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Silicon PNP Power Transistor

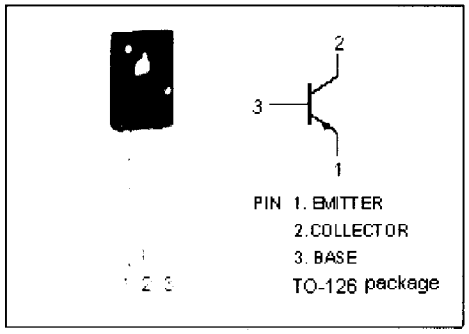
2SA1249

DESCRIPTION

- High Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -160V (Min)
- Large Current Capacity
- Complement to Type 2SC3117

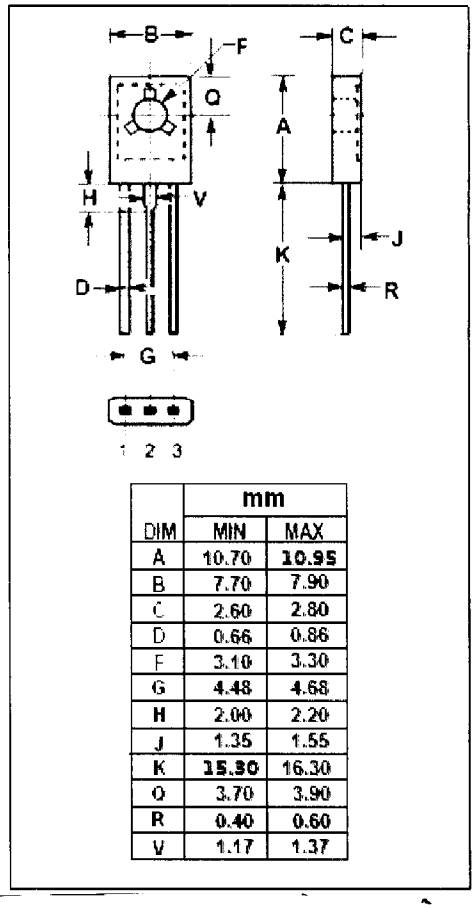
APPLICATIONS

- Color TV sound output, converters, inverters.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-180	V
V_{CEO}	Collector-Emitter Voltage	-160	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-1.5	A
I_{CM}	Collector Current-Peak	-2.5	A
P_C	Total Power Dissipation @ T_a=25℃	1	W
	Total Power Dissipation @ T_C=25℃	10	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	10.70	10.95
B	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
H	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
V	1.17	1.37

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; R_{BE}= ∞	-160			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -10μ A; I_E= 0	-180			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -10μ A; I_C= 0	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -0.5A; I_B= -50mA			-0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -0.5A; I_B= -50mA			-1.2	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -120V; I_E= 0			-1.0	μ A
I_{EBO}	Emitter Cutoff Current	V_{EB}= -4V; I_C= 0			-1.0	μ A
h_{FE-1}	DC Current Gain	I_C= -0.1A; V_{CE}= -5V	100		400	
h_{FE-2}	DC Current Gain	I_C= -10mA; V_{CE}= -5V	90			
f_T	Current-Gain—Bandwidth Product	I_C= -50mA; V_{CE}= -10V		120		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V; f= 1.0MHz		22		pF

◆ **h_{FE-1} Classifications**

R	S	T
100-200	140-280	200-400