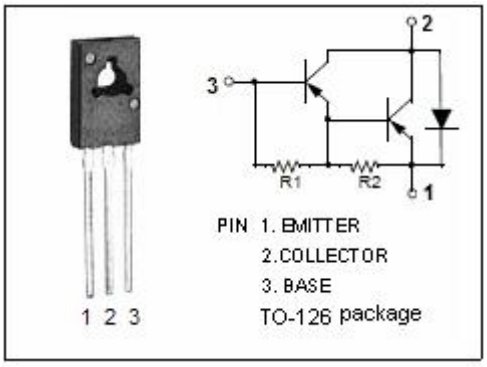
isc Silicon PNP Darlingtion Power Transistor 2SB1149

DESCRIPTION

- High DC Current Gain-
  : h_{FE}= 2000(Min.)@I_C= -1.5A
- Low Collector Saturation Voltage-
  : $V_{CE(sat)}$= -1.2V(Max)@I_C= -1.5A
- Good Linearity of h_{FE}
- With TO-126 package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

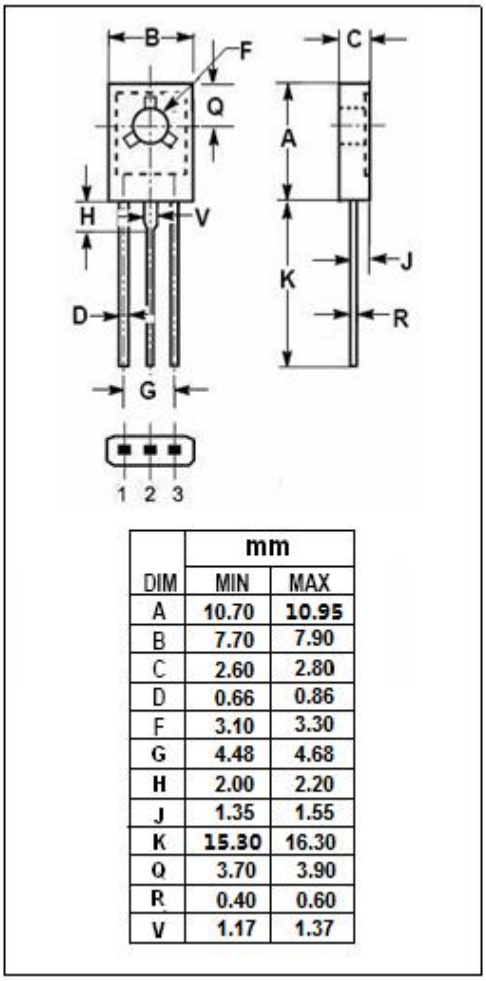


APPLICATIONS

- Operate from Ic without predriver applications.
- Hammer driver applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-8	V
I_C	Collector Current-Continuous	-3	A
I_{CM}	Collector Current-Peak	-5	A
P_C	Collector Power Dissipation @ Ta=25℃	1.3	W
	Collector Power Dissipation @ Tc=25℃	15	
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

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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= -5mA; I_B= 0	-100			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -1.5A; I_B= -1.5mA			-1.2	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -1.5A; I_B= -1.5mA			-2.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -100V; I_E= 0			-10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-1.0	mA
h_{FE-1}	DC Current Gain	I_C= -1.5A; V_{CE}= -2V	2000		15000	
h_{FE-2}	DC Current Gain	I_C= -3A; V_{CE}= -2V	1000			

◆ **h_{FE-1} Classifications**

M	L	K
2000-5000	3000-7000	5000-15000

Switching Times

t_{on}	Turn-on Time	I_C= -1.5A ,I_{B1}= -I_{B2}= -1.5mA, V_{CC}≈ -40V; R_L= 27Ω		0.5		μs
t_{stg}	Storage Time			2.0		μs
t_f	Fall Time			1.0		μs

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