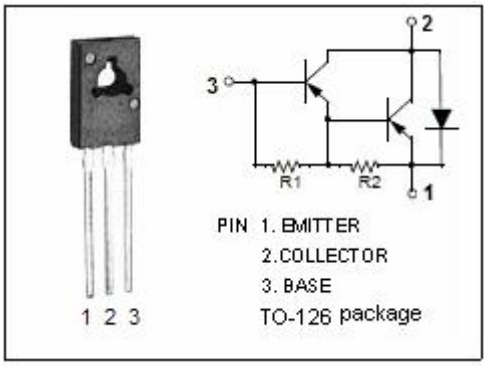
isc Silicon PNP Darlington Power Transistor 2SB1034

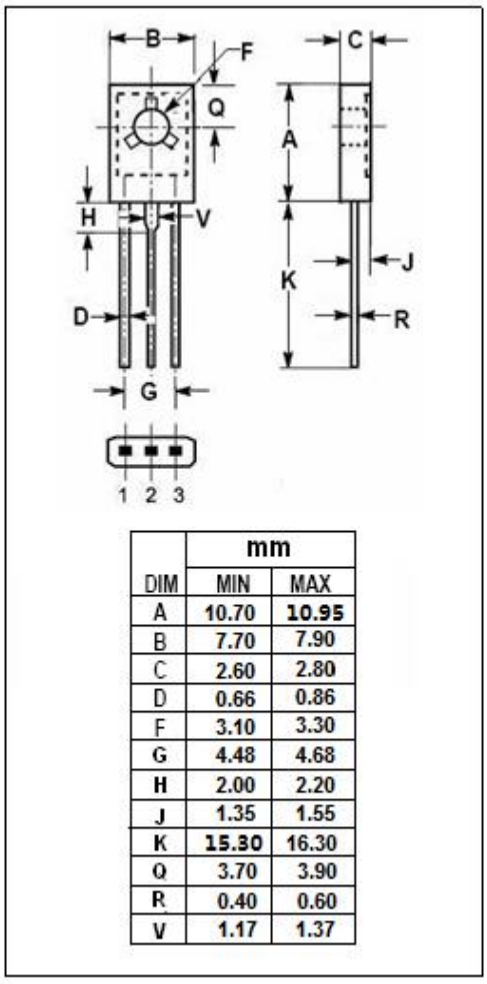


DESCRIPTION

- High DC Current Gain-
  : h_{FE} = 2000(Min)@ I_C= -1A
- Collector-Emitter Sustaining Voltage-
  : $V_{CEO(SUS)}$ = -80V(Min)
- Low Collector-Emitter Saturation Voltage-
  : $V_{CE(sat)}$ = -1.5V(Max)@ I_C= -1A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for general purpose amplifier and low speed switching applications.



DIM	mm MIN	mm 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

ABSOLUTE MAXIMUM RATINGS (T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-8	V
I_C	Collector Current-Continuous	-2	A
I_B	Base Current	-0.5	A
P_C	Collector Power Dissipation T_C=25℃	15	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= -10mA, I_B= 0	-80			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -1A, I_B= -1mA			-1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -1A, I_B= -1mA			-2.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -80V, I_E= 0			-10	uA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -8V; I_C= 0			-4.0	mA
h_{FE}	DC Current Gain	I_C= -1A; V_{CE}= -2V	2000			
f_T	Current-Gain—Bandwidth Product	I_C= -500mA; V_{CE}= -2V		50		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V, f= 1MHz		30		pF
Switching Times						
t_{on}	Turn-on Time	I_C= -1A, I_{B1} = -I_{B2} = -1mA;		0.4		μs
t_s	Storage Time			2.0		μs
t_{off}	Turn-off Time			0.4		μs

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