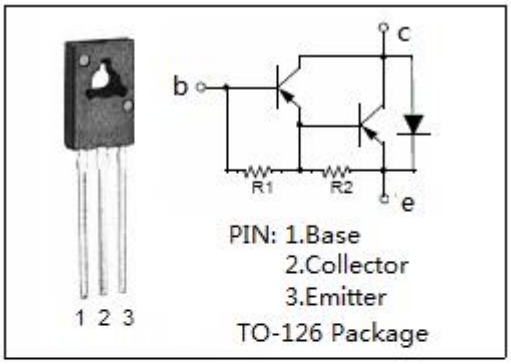
isc Silicon PNP Power Transistor — BD332

DESCRIPTION

- High DC Current Gain
- Complement to type BD331
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- PNP epitaxial base transistors in monolithic Darlington circuit for audio output stages and general amplifier and switching applications.

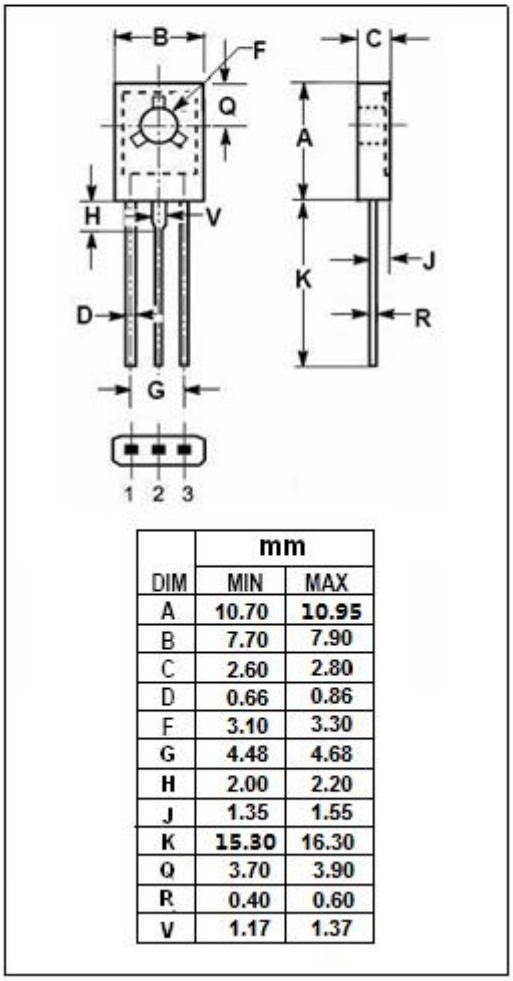


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-6	A
I_{BM}	Base Current-Peak	-0.15	A
P_C	Collector Power Dissipation @ T_C=25℃	60	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-65~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	2.08	℃/W
$R_{th\ j\text{-}a}$	Thermal Resistance,Junction to Ambient	100	℃/W



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

isc Silicon PNP Power Transistor BD332

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	-60			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C=- 3A; I_B= -12mA			-2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= -3A; V_{CE}= -3V			-2.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -60V; I_E= 0 V_{CB}= -60V; I_E= 0,T_C=150℃			-0.1 -1.0	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-5	mA
h_{FE-1}*	DC Current Gain	I_C= -0.5A; V_{CE}= -3V		2700		
h_{FE-2}*	DC Current Gain	I_C= -3A; V_{CE}=-3V	750			
h_{FE-3}*	DC Current Gain	I_C= -6A; V_{CE}= -3V		400		

*:Measured under pulse conditions:tp<300us,σ<2%