

isc Silicon PNP Power Transistor
BD334
DESCRIPTION

- High DC Current Gain
- Complement to type BD333
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

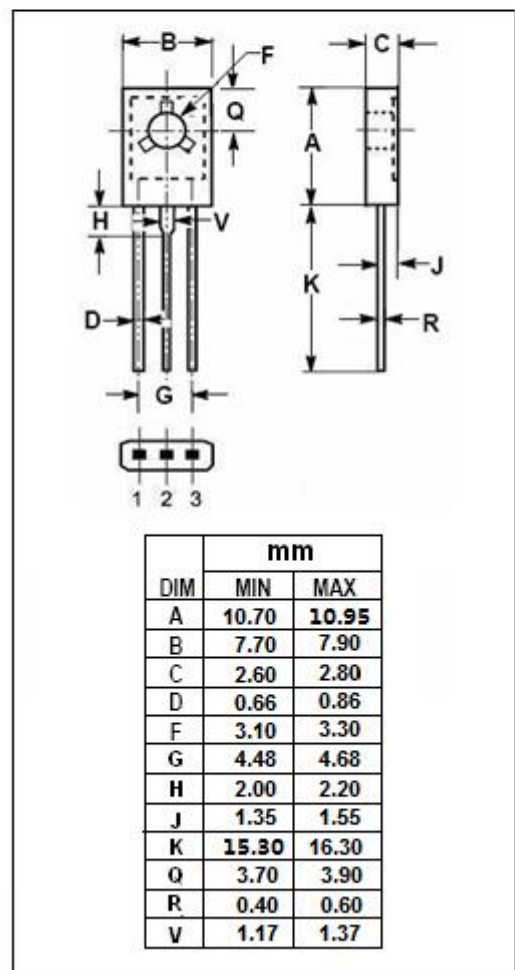
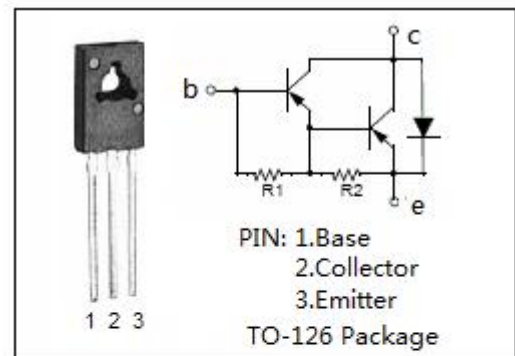
- PNP epitaxial base transistors in monolithic Darlington circuit for audio output stages and general amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EB0}	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°C	60	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.08	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	100	°C/W



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ELECTRICAL CHARACTERISTICS
 $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C = -10\text{mA}; I_B = 0$	-80			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -3\text{A}; I_B = -12\text{mA}$			-2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -3\text{A}; V_{CE} = -3\text{V}$			-2.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -60\text{V}; I_E = 0$ $V_{CB} = -60\text{V}; I_E = 0, T_C = 150^{\circ}\text{C}$			-0.1 -1.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}; I_C = 0$			-5	mA
h_{FE-1}^*	DC Current Gain	$I_C = -0.5\text{A}; V_{CE} = -3\text{V}$		2700		
h_{FE-2}^*	DC Current Gain	$I_C = -3\text{A}; V_{CE} = -3\text{V}$	750			
h_{FE-3}^*	DC Current Gain	$I_C = -6\text{A}; V_{CE} = -3\text{V}$		400		

 *:Measured under pulse conditions: $t_p < 300\mu\text{s}, \sigma < 2\%$
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