

isc Silicon PNP Power Transistor
BD338
DESCRIPTION

- High DC Current Gain
- Complement to type BD337
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

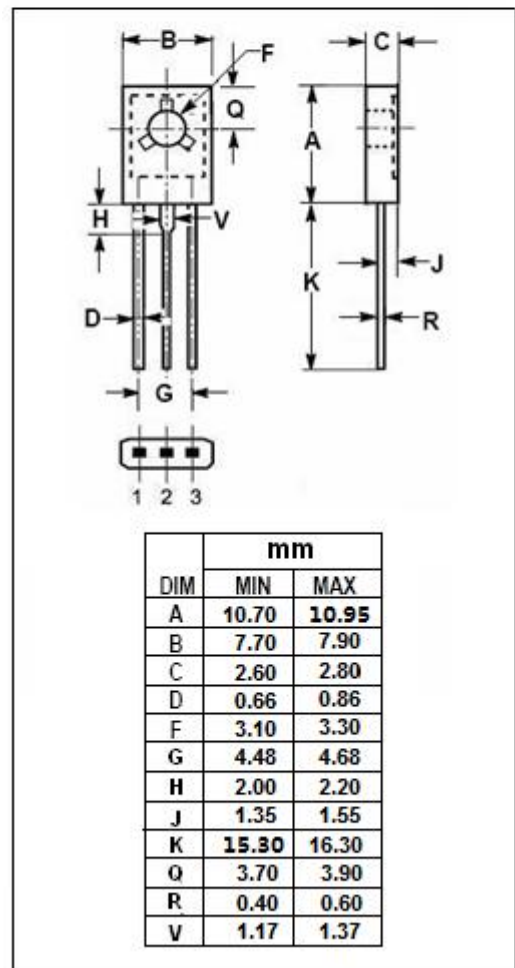
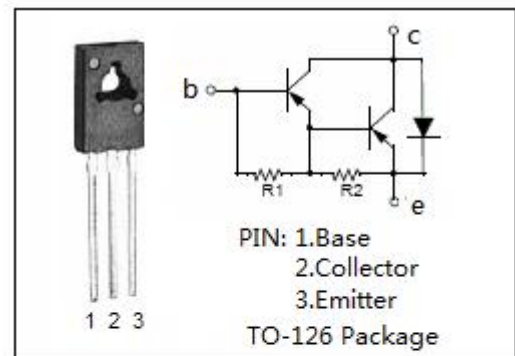
- PNP epitaxial base transistors in monolithic Darlington circuit for audio output stages and general amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	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°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -10mA; I _B = 0	-120			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} = -120V; I _E = 0 V _{CB} = -120V; I _E = 0, T _C =150°C			-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: t_p<300us, σ<2%**NOTICE:**

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