

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

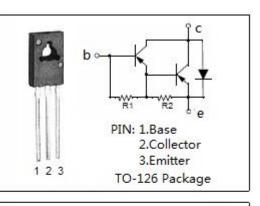
• PNP epitaxial base transistors in monolithic Darlington circuit for audio output stages and general amplifier and switching applications.

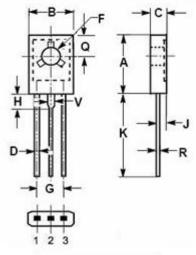
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABSOLUTE WAANVUW RATINGS(Ta-25C)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	-120	V		
V _{CEO}	Collector-Emitter Voltage	-120	V		
V _{EBO}	Emitter-Base Voltage	-6	V		
Ic	Collector Current-Continuous	-6	А		
Івм	Base Current-Peak	-0.15	А		
Pc	Collector Power Dissipation @ Tc=25°C	60	W		
TJ	Junction Temperature	150	°C		
T _{stg}	Storage Temperature Range	-65~150	°C		

THERMAL CHARACTERISTICS

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





	mm	
DIM	MIN	MAX
Α	10.70	10.95
В	7.70	7.90
С	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 website: <u>www.iscsemi.com</u>

¹ *isc & iscsemi* is registered trademark



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(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
І _{сво}	Collector Cutoff Current	V _{CB} = -120V; I _E = 0 V _{CB} = -120V; I _E = 0,T _C =150°С			-0.1 -1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5	mA
h _{FE-1} *	DC Current Gain	Ic= -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%

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