

isc Silicon PNP Power Transistor

BD720

DESCRIPTION

- DC Current Gain-
 - : h_{FE}= 40@ I_C= -0.5A
- · Collector-Emitter Breakdown Voltage -
- : V_{(BR)CEO}= -60V(Min)
- Complement to type BD719
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



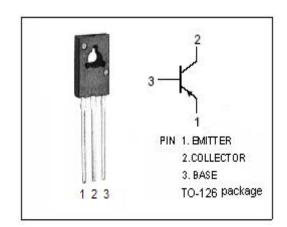
 Designed for use in audio output and general purpose amplifier applications.

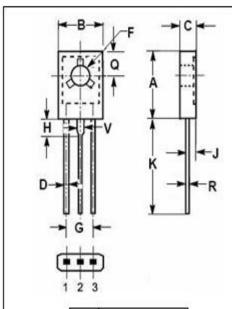


SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-4	А
I _{CM}	Collector Current-Peak	-7	А
l _Β	Base Current-Continuous	-1	А
Pc	Collector Power Dissipation @ T _C =25 °C	36	W
TJ	Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-65~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.5	°C/W
R _{th j-a}	th j-a Thermal Resistance,Junction to Ambient		°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
Н	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
٧	1.17	1.37



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA ; I _B = 0	-60			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.0	V	
V _{BE(on)}	Base-Emitter On Voltage	I _C = -2A; V _{CE} = -4V			-1.4	V	
Ісво	Callegator Cutoff Current	V _{CB} = -60V; I _E = 0			-50	μА	
	Collector Cutoff Current	V _{CB} = -30V; I _E = 0; T _C = 150°C			-1	mA	
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V; I _B = 0			-0.1	mA	
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.2	mA	
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -4V	40				
h _{FE-2}	DC Current Gain	I _C = -2A; V _{CE} = -4V	20				
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -4V	3			MHz	
Switching Times							
t _{on}	Turn-On time	I _C = -1A; I _{B1} = -I _{B2} = -0.1A;		0.1		μs	
t _{off}	Turn-Off time	V _{CC} = -20V		0.4		μs	

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