

isc Silicon NPN Power Transistor

BD157

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 250V(Min)
- DC Current Gain-
 - : h_{FE} = 30~240(Min) @ I_C= 50mA
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



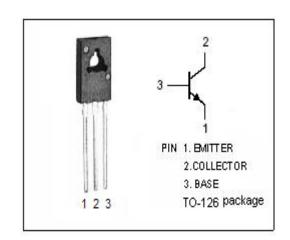
 Designed for power output stages for television, radio, phonograph and other consumer product applications.

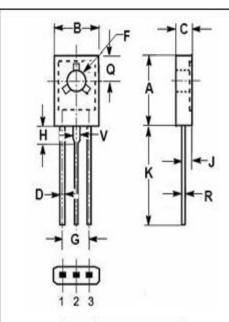
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	275	٧	
V _{CEO}	Collector-Emitter Voltage	250	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	0.5	Α	
I _{CM}	Collector Current-Peak	1.0	Α	
lΒ	Base Current-Continuous	0.25	Α	
Pc	Collector Power Dissipation T _C =25°C	20	W	
Ti	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	6.25	°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

T_C =25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 1.0mA; I _B = 0	250		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA; I _E = 0	275		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA; I _C = 0	5		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA ;I _B = 5mA		1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 275V; I _E = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		0.1	mA
h _{FE}	DC Current Gain	I _C = 50m A; V _{CE} = 10V	30	240	



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