

isc Silicon PNP Power Transistor

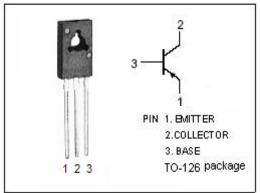
BD440

DESCRIPTION

- · Collector-Emitter Sustaining Voltage -
- : V_{CEO(SUS)}= -60V(Min)
- Complement to type BD439
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

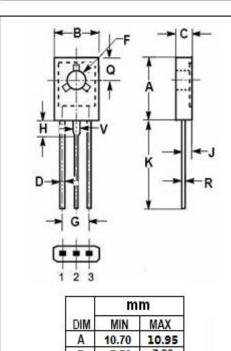
APPLICATIONS

 Designed for medium power linear and switching applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
Vces	Collector-Emitter Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-4	Α
Ісм	Collector Current-Pulse	-7	Α
I _B	Base Current-Continuous	-1	Α
Pc	Collector Power Dissipation @ Tc=25℃	36	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$



	mm	
DIM	MIN	MAX
Α	10.70	10.95
В	7.70	7.90
C	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
V	1.17	1.37



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ELECTRICAL CHARACTERISTICS

 T_C =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B = 0	-60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-0.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -2A; V _{CE} = -1V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -60V; I _E = 0			-100	μ Α
I _{CEO}	Collector Cutoff Current	V _{CE} = -60V; V _{BE} = 0			-100	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1	mA
h _{FE-1}	DC Current Gain	I _C = -10mA; V _{CE} = -5V	20			
h _{FE-2}	DC Current Gain	Ic= -0.5A; V _{CE} = -1V	40			
h _{FE-3}	DC Current Gain	I _C = -2A; V _{CE} = -1V	25			
fτ	Current-Gain—Bandwidth Product	I _C = -0.25A; V _{CE} = -1V	3			MHz

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