

isc Silicon PNP Power Transistors

BD350

DESCRIPTION

- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.0V(\text{Max.}) @ I_C = -15A$
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

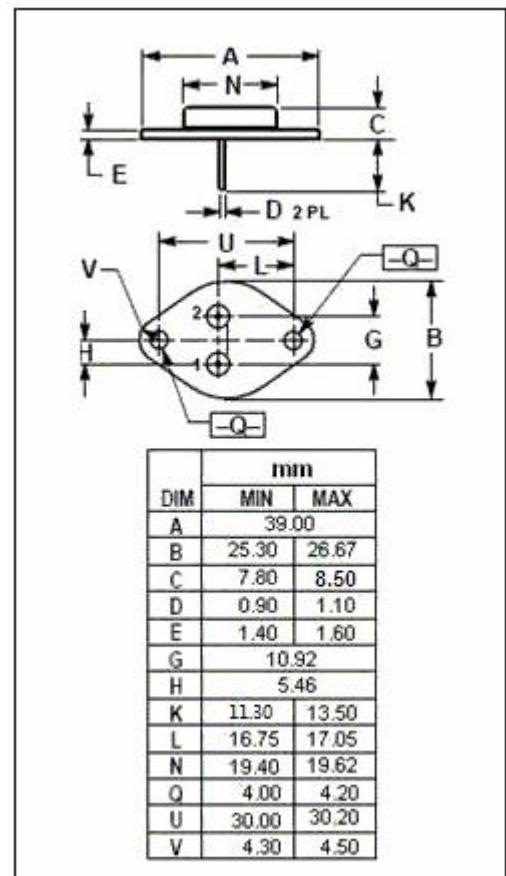
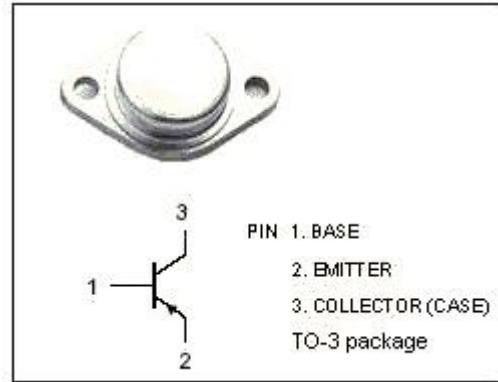


APPLICATIONS

- Designed for use in power amplifier and switching circuits.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-30	A
I_{CM}	Collector Current-Peak	-50	A
I_B	Base Current-Continuous	-7.5	A
P_C	Collector Power Dissipation@ $T_a=25^\circ\text{C}$	5	W
	Collector Power Dissipation@ $T_c=25^\circ\text{C}$	160	
T_J	Junction Temperature	175	°C
T_{stg}	Storage Temperature	-65~175	°C



isc Silicon PNP Power Transistors**BD350****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(sus)}	Collector-Emitter Sustaining Voltage	I _C = -50mA ; I _B = 0	-80		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A		-0.8	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -15A; I _B = -1.5A		-1.0	V
V _{CE(sat)-3}	Collector-Emitter Saturation Voltage	I _C = -20A; I _B = -2A		-2.0	V
V _{CE(sat)-4}	Collector-Emitter Saturation Voltage	I _C = -30A; I _B = -6A		-4.0	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = -10A; I _B = -1A		-1.6	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = -15A; I _B = -1.5A		-1.8	V
V _{BE(sat)-3}	Base-Emitter Saturation Voltage	I _C = -20A; I _B = -2A		-2.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -80V; I _B = 0		-0.5	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0		-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -2V	40		
h _{FE-2}	DC Current Gain	I _C = -15A; V _{CE} = -2V	20	60	
h _{FE-3}	DC Current Gain	I _C = -30A; V _{CE} = -4V	5		
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V ,f _{test} = 1.0MHz	4		MHz

**NOTICE:**

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