

isc Silicon PNP Power Transistor

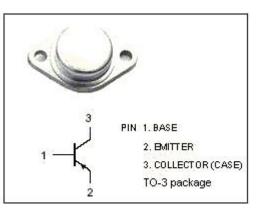
BD343

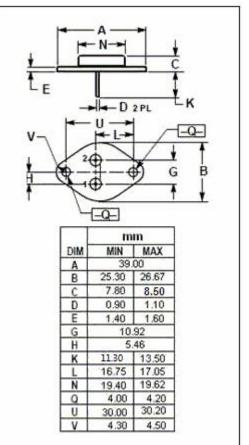
DESCRIPTION

- Excellent Safe Operating Area
- High DC Current Gain-
- : h_{FE}=15-100(Min)@I_C= -8A
- · Low Saturation Voltage-
- : V_{CE(sat})= -1.0V(Max)@ I_C = -8.0A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Designed for high power amplifier and switching applications





ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-40	V
Vceo	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage -5		V
lc	Collector Current-Continuous -12		А
Ісм	Collector Current-Peak	-15	A
IB	Base Current-Continuous	us -5	
Pc	Collector Power Dissipation @Tc=25°C	100	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65~150	°C



INCHANGE SEMICONDUCTOR

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B = 0	-40		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -8A; I _B = -0.8A		-1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -12A; I _B = -2A		-2.0	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = -8A; I _B = -0.8A		-2.0	V
V _{BE} (sat)-2	Base-Emitter Saturation Voltage	I _C = -12A; I _B = -2A		-3.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -40V; I _B = 0		-0.5	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0		-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5.0V; I _C = 0		-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60	200	
h _{FE-1}	DC Current Gain	I _C = -8A; V _{CE} = -5V	15	100	
h _{FE-2}	DC Current Gain	I _C = -12A; V _{CE} = -5V	5		
f⊤	Current Gain-Bandwidth Product	I _C = -1A; V _{CE} = -10V; f= 1MHz	3.0		MHz

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