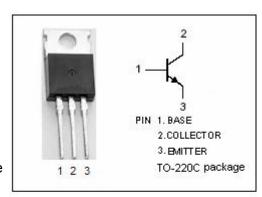


isc Silicon NPN Power Transistor

BD347

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V(Min)
- Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)} = 1.0V(Max)@ I_C = 3A$
- · Good Linearity of hFE
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

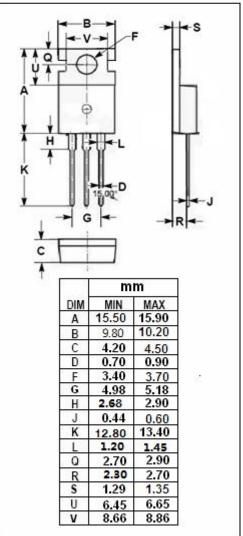


APPLICATIONS

Designed for RF power and general-purpose audio amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
Vceo	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	8	Α	
Ісм	Collector Current-Peak t _p ≤10ms	12	А	
lΒ	Base Current	3	Α	
Pc	Collector Power Dissipation @ T _C =25 ℃	60	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	





ISC Silicon NPN Power Transistors

BD347

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA ;I _B = 0	60		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ;I _E = 0	60		V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I _E = 1mA ;I _C = 0	5		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 0.6A		1.5	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		1.5	V
$V_{BE(sat)\text{-2}}$	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 0.6A		2.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 60V; I _B = 0		0.2	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V;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 = 3A; V _{CE} = 2V	40		
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V, f _{test} = 1.0MHz	4.0		MHz

NOTICE:

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