

isc Silicon NPN Power Transistor

BD807

DESCRIPTION

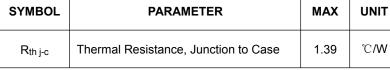
- DC Current Gain -
- : h_{FE} = 30(Min.)@ I_C= 2A
- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 60V(Min)
- Complement to Type BD808
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

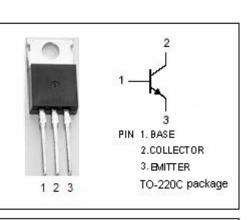
APPLICATIONS

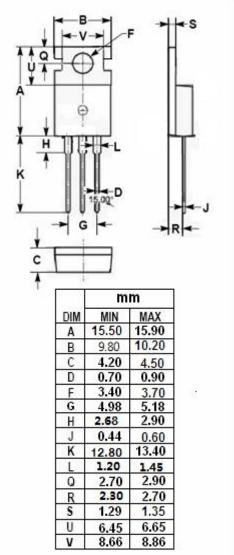
• Designed for use in high power audio amplifiers utilizing complementary or quasi complementary circuits.

ABSOLUT	TE MAXIMUM RATINGS(Ta:	=25 ℃	;)

SYMBOL	PARAMETER	VALUE		UNIT		
V _{CBO}	Collector-Base Voltage	70		V		
V _{CEO}	Collector-Emitter Voltage		60	V		
V _{EBO}	Emitter-Base Voltage	5		V		
Ic	Collector Current-Continuous	10		А		
I _B	Base Current	6		А		
Pc	Collector Power Dissipation @ T_c =25°C	90		W		
TJ	Junction Temperature	150		°C		
T _{stg}	Storage Temperature Range	-55~150		°C		
THERMAL CHARACTERISTICS						
SVMBOI	DADAMETER			LINUT		







isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	60		v
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A		1.1	v
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = 4A; V _{CE} = 2V		1.6	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 70V; I _E = 0		1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		2.0	mA
h _{FE-1}	DC Current Gain	I _C = 2A ; V _{CE} = 2V	30		
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 2V	15		
f⊤	Current-Gain—Bandwidth Product	I _C = 1.0A ; V _{CE} = 10V; f _{test} = 1.0MHz	1.5		MHz

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