

isc Silicon PNP Darlington Power Transistor

2SB1470

DESCRIPTION

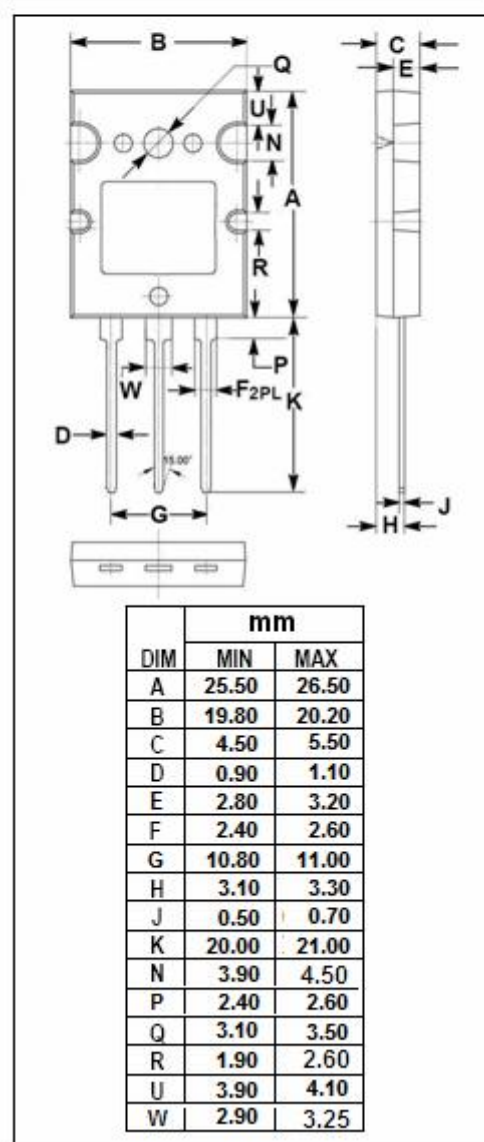
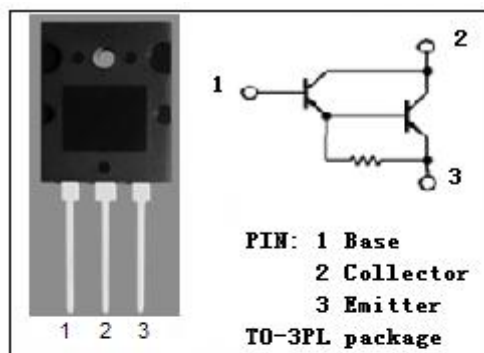
- High forward current transfer ratio hFE
- Low collector to emitter saturation voltage VCE(sat)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power amplification
- Optimum for 120W HiFi output applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-160	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current-Continuous	-8	A
I _{CM}	Collector Current-Peak	-15	A
P _C	Collector Power Dissipation @ T _C =25°C	150	W
	Collector Power Dissipation @ T _a =25°C	3.5	
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



isc Silicon PNP Darlington Power Transistor**2SB1470****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-160			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -7A; I _B = -7mA			-3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -7A; I _B = -7mA			-3.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -160V; I _E = 0			-100	μ A
I _{CEO}	Collector Cutoff Current	V _{CE} = -160V; I _B = 0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μ A
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	1000			
h _{FE-2}	DC Current Gain	I _C = -7A; V _{CE} = -5V	3500		20000	
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V		20		MHz

Switching Times

t _{on}	Turn-on Time	I _C = -7A; I _{B1} = -I _{B2} = -7mA, V _{CC} = -50V		1.0		μ s
t _{stg}	Storage Time			1.5		μ s
t _f	Fall Time			1.2		μ s

◆ h_{FE-2} Classifications

Q	P
3500-10000	7000-20000

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