

isc Silicon PNP Power Transistor

2SB680

DESCRIPTION

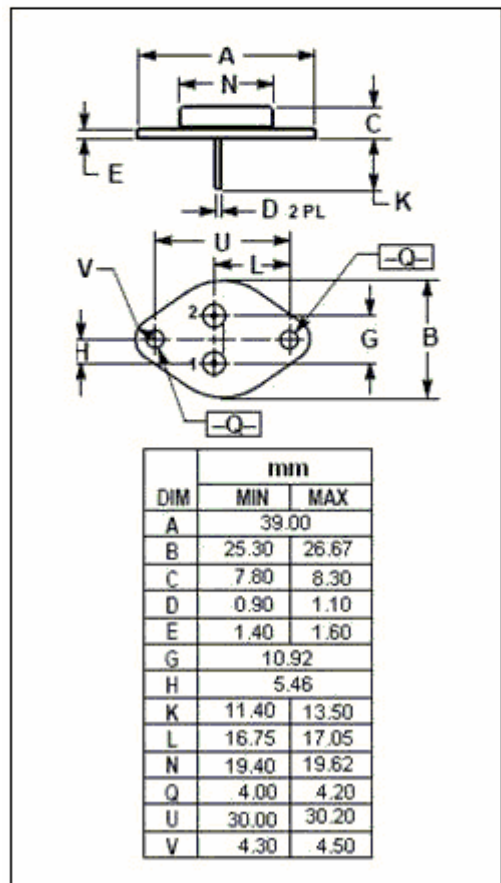
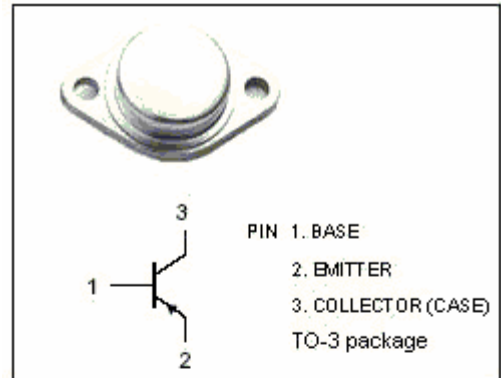
- High Power Dissipation-
: PC= 100W(Max.)@T_C=25°C
- Collector-Emitter Breakdown Voltage-
: V_{(BR)CEO}= -100V(Min.)
- Complement to Type 2SC1080

APPLICATIONS

- Designed for audio power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current-Continuous	-12	A
I _E	Emitter Current-Continuous	12	A
P _C	Collector Power Dissipation @T _C =25°C	100	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65~150	°C



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -100mA ; I _B = 0	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10mA ; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -10A ; I _B = -1A			-3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -10A ; V _{CE} = -5V			-2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -50V ; 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 = -2A ; V _{CE} = -5V	40		140	
h _{FE-2}	DC Current Gain	I _C = -7A ; V _{CE} = -5V	15			
C _{OB}	Output Capacitance	V _{CB} = -10V ; f _{test} = 1MHz		900		pF
f _T	Current-Gain—Bandwidth Product	I _C = -2A ; V _{CE} = -5V		6		MHz

◆ h_{FE-1} Classifications

R	Y
40-80	70-140