

isc Silicon PNP Power Transistors
2SB600
DESCRIPTION

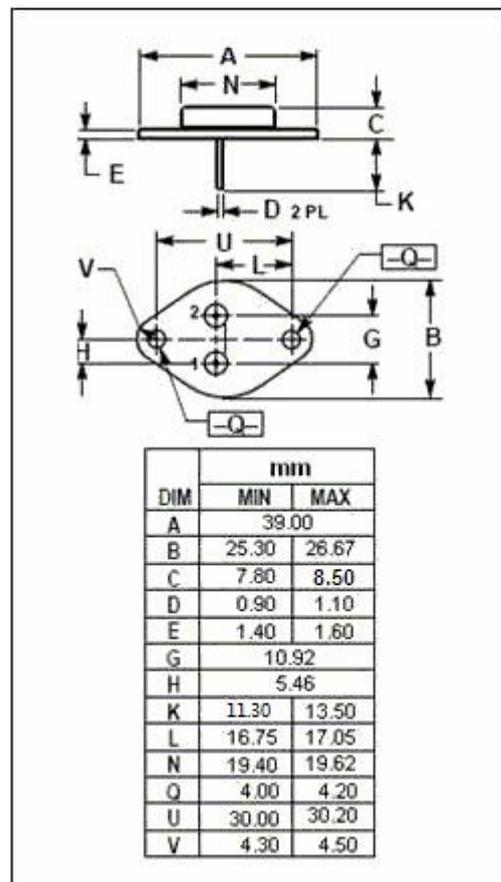
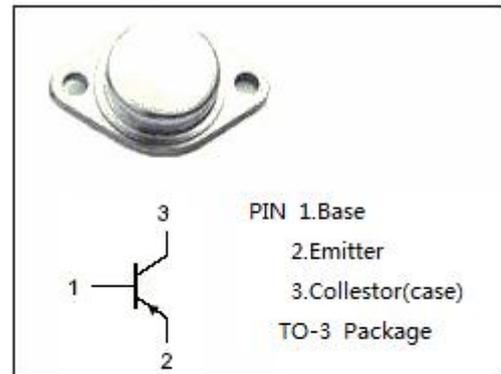
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -200V(\text{Min})$
- High Power Dissipation-
: $P_C = 200W(\text{Max}) @ T_C = 25^\circ\text{C}$
- Complement to Type 2SD555
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-200	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-10	A
I_{CM}	Collector Current-Pulse	-15	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	200	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-65~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

 T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A			-3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -10A; I _B = -1A			-3.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -50mA; V _{CE} = -5V	20			
h _{FE-2}	DC Current Gain	I _C = -2A; V _{CE} = -5V	40		200	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		400		pF
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		4		MHz

◆ h_{FE-2} Classifications

S	R	Q
40-80	60-120	100-200

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