

isc Silicon PNP Power Transistor

2SB1094

DESCRIPTION

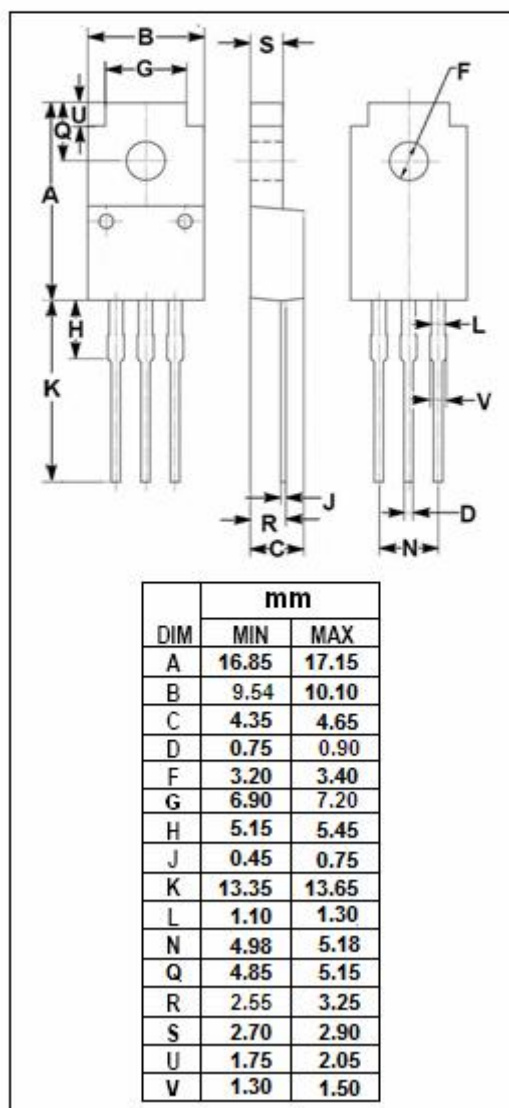
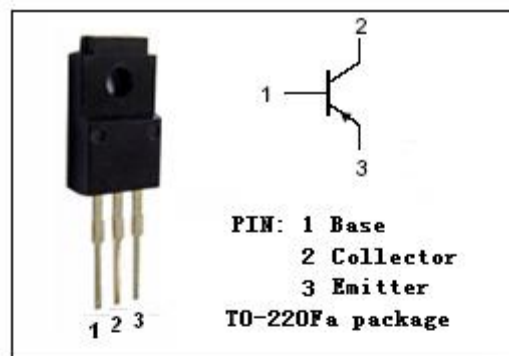
- High Collector Current:: $I_C = -3A$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -1.5V(Max) @ I_C = -2A$
- Complement to Type 2SD1585
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power supplies or a variety of drives in audio and other equipment.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-3	A
I_{CM}	Collector Current-Peak	-5	A
I_B	Base Current-Continuous	-0.6	A
P_C	Total Power Dissipation @ $T_a=25^{\circ}C$	2	W
	Total Power Dissipation @ $T_c=25^{\circ}C$	15	
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$



isc Silicon PNP Power Transistor**2SB1094****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -60V; I _E = 0			-10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-10	μA
h _{FE-1}	DC Current Gain	I _C = -50mA; V _{CE} = -5V	20			
h _{FE-2}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	40		200	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		70		pF
f _T	Current-Gain—Bandwidth Product	I _C = -0.1A; V _{CE} = -5V		20		MHz

◆ h_{FE-2} Classifications

M	L	K
40-80	60-120	100-200

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