

isc Silicon PNP Power Transistor

2SB1054

DESCRIPTION

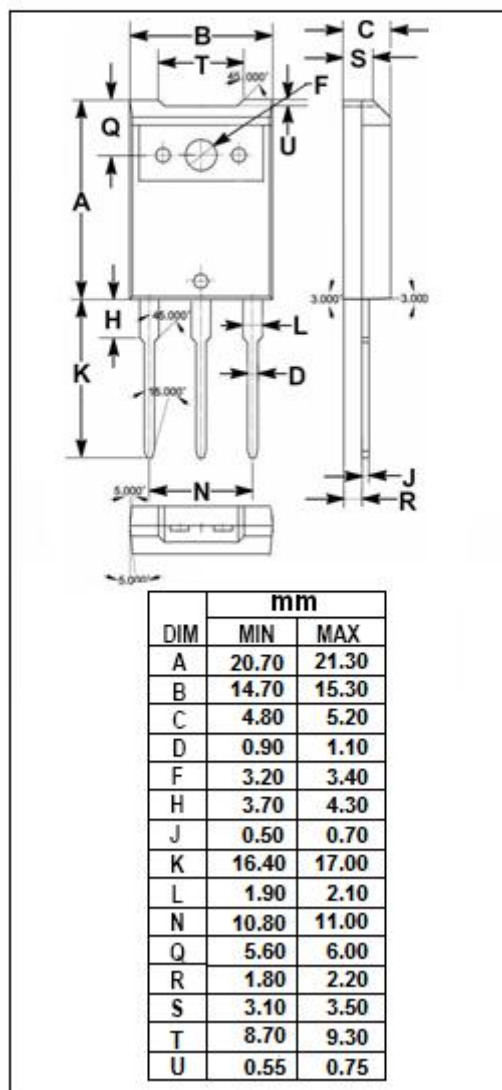
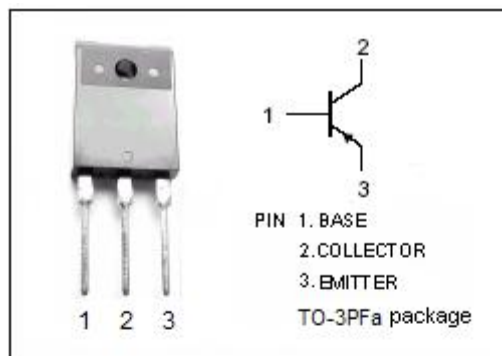
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -2.0V(Max) @ I_C = -3A$
- Wide Area of Safe Operation
- Complement to Type 2SD1485
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high power amplification.

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

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	-5	A
I_{CM}	Collector Current-Peak	-8	A
P_C	Collector Power Dissipation @ $T_a=25^{\circ}C$	3	W
	Collector Power Dissipation @ $T_c=25^{\circ}C$	60	
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$



isc Silicon PNP Power Transistor**2SB1054****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 = -3A; I _B = -0.3A			-2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -5V			-1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C = 0			-50	μ A
h _{FE-1}	DC Current Gain	I _C = -20mA; V _{CE} = -5V	20			
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		200	
h _{FE-3}	DC Current Gain	I _C = -3A; V _{CE} = -5V	20			
C _{OB}	Output Capacitance	I _E = 0; V _{CE} = -10V; f _{test} =1MHz		170		pF
f _T	Current-Gain—Bandwidth Product	I _C =-0.5A; V _{CE} = -5V; f _{test} =1MHz		20		MHz

◆ h_{FE-2} Classifications

Q	P
60-120	100-200

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