

isc Silicon PNP Power Transistor

2SB1289

DESCRIPTION

- High Collector Current: $I_C = -7A$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -1.0V(Max) @ I_C = -4A$
- Wide Area of Safe Operation
- Complement to Type 2SD1580
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

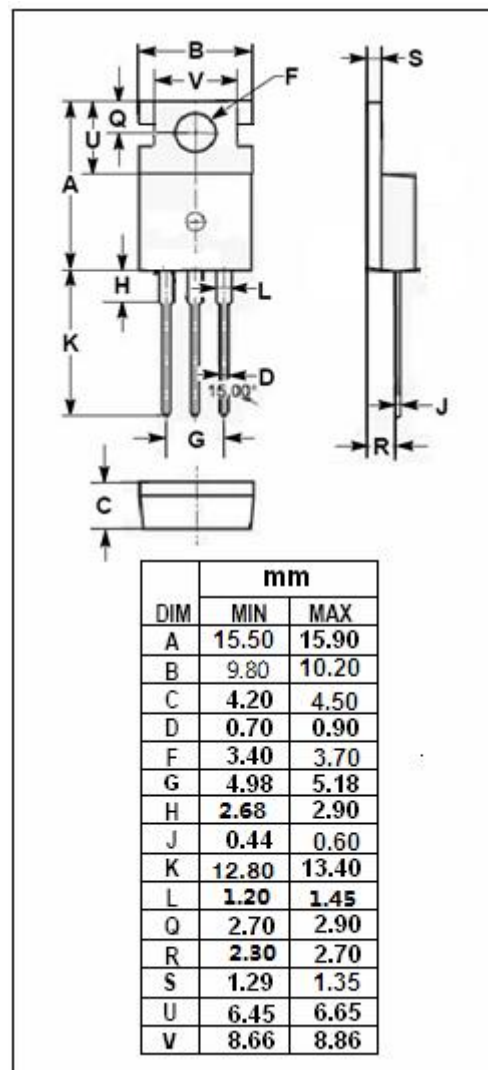
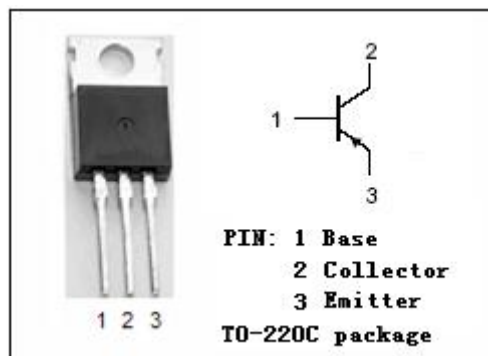


APPLICATIONS

- Designed for low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-7	A
I_{CM}	Collector Current-Peak	-10	A
P_C	Total Power Dissipation @ $T_C = 25^\circ C$	40	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon PNP Power Transistor**2SB1289****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 = -1mA; I _B = 0	-80			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μA; I _E = 0	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -50 μA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-10	μA
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		320	
C _{OB}	Output Capacitance	I _E =0; V _{CB} = -10V; f= 1MHz		200		pF
f _T	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -5V		12		MHz

◆ h_{FE} Classifications

D	E	F
60-120	100-200	160-320

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