

isc Silicon PNP Power Transistor
2SA1291
DESCRIPTION

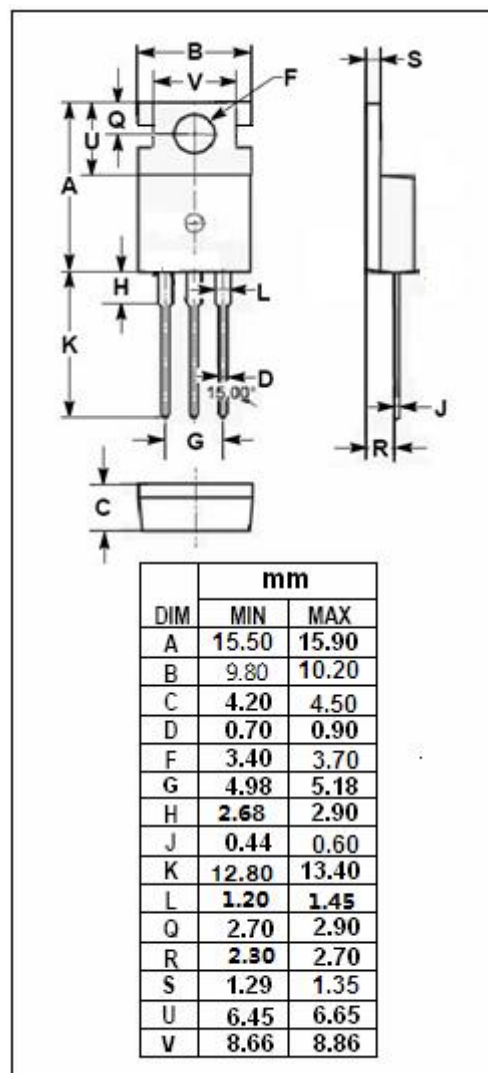
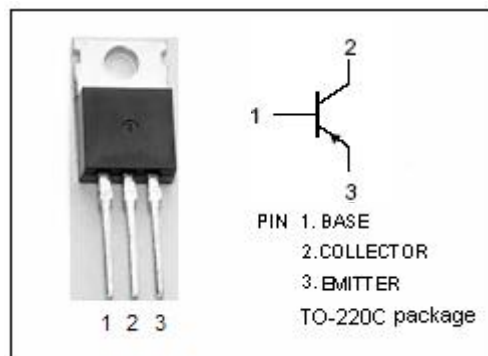
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -0.4V(\text{Max.})@I_C = -5A$
- Fast Switching Speed
- Complement to Type 2SC3255
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Various inductance lamp drivers for electrical equipment.
- Inverters, converters(strobo, flash, fluorescent lamp lighting circuits).
- Power amplifier (high power car stereo, motor controller).
- High-speed switching (switching regulator, driver).

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-10	A
I_{CM}	Collector Current-Peak	-12	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	40	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SA1291****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; R _{BE} = ∞	-60			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.25A			-0.4	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-100	μ A
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -2V	70		280	

◆ h_{FE} Classifications

Q	R	S
70-140	100-200	140-280

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