

isc Silicon PNP Power Transistor
2SA1293
DESCRIPTION

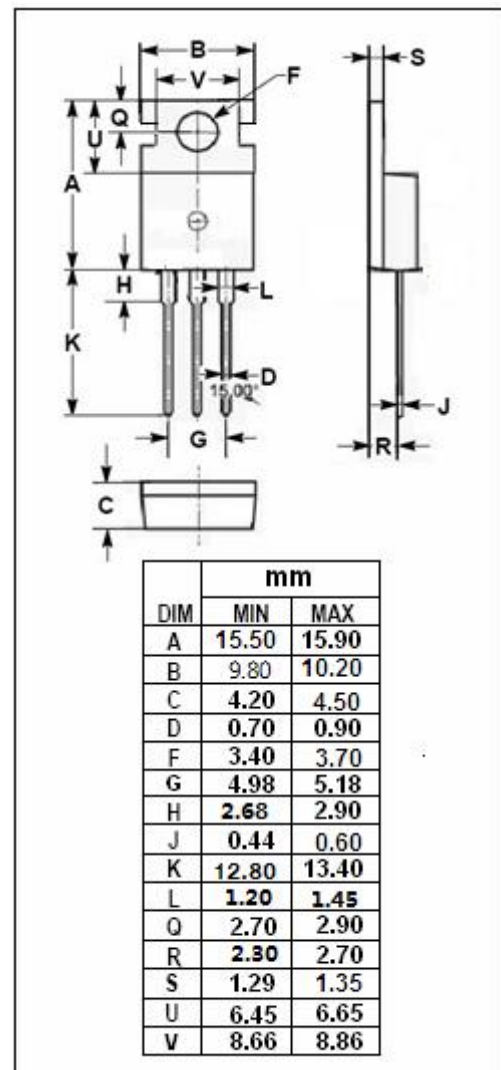
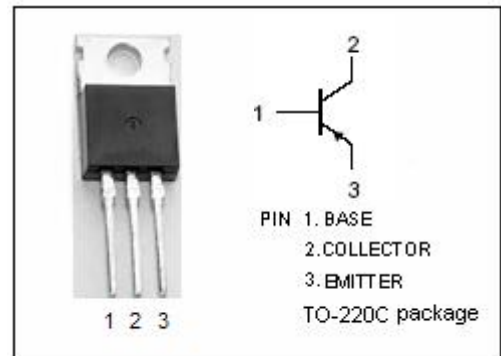
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -0.4V(\text{Max.}) @ I_C = -3A$
- Fast Switching Speed
- Complement to Type 2SC3258
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high current switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-5	A
I_{CM}	Collector Current-Peak	-8	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	30	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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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 = -10mA; I _B = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.15A			-0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -0.15A			-1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-1	μ A
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -1V	70		240	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -1V	30			

◆ h_{FE-1} Classifications

O	Y
70-140	120-240

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