

isc Silicon PNP Power Transistor
2SA1395
DESCRIPTION

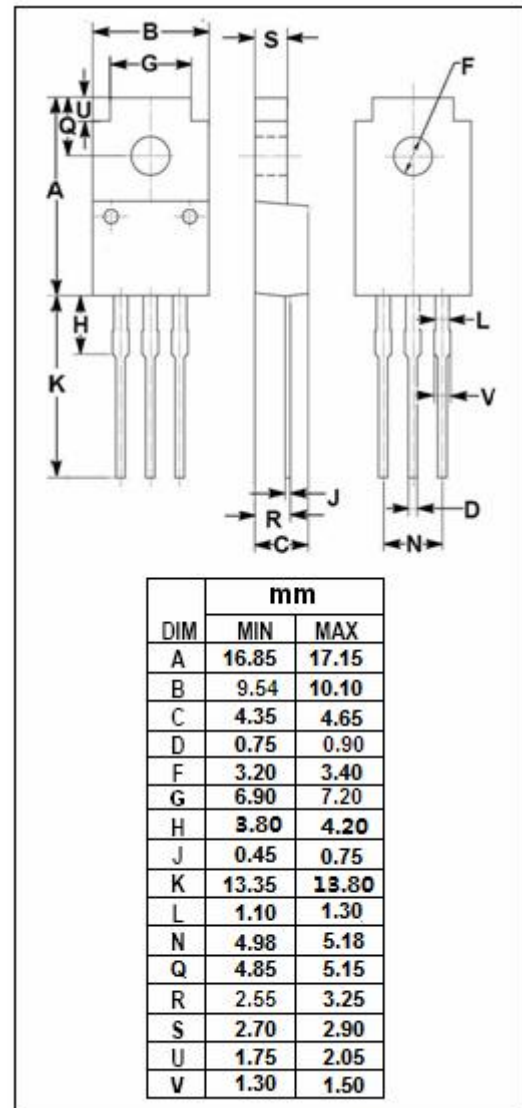
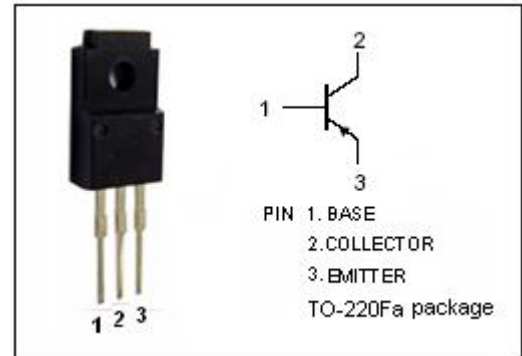
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -0.6V(\text{Max}) @ I_C = -1A$
- High Switching Speed
- Complement to Type 2SC3567
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for switching regulator, DC-DC converter and high frequency power amplifier 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	-100	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-4	A
I_B	Base Current-Continuous	-1	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	15	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

 T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -1A; I _B = -0.1A, L=1mH	-100		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.1A		-0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -1A; I _B = -0.1A		-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V ; I _E =0		-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-10	μ A
h _{FE-1}	DC Current Gain	I _C = -0.1A; V _{CE} = -5V	40		
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -5V	40	200	

◆ h_{FE-2} Classifications

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

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