

isc Silicon PNP Power Transistor

2SA1395

DESCRIPTION

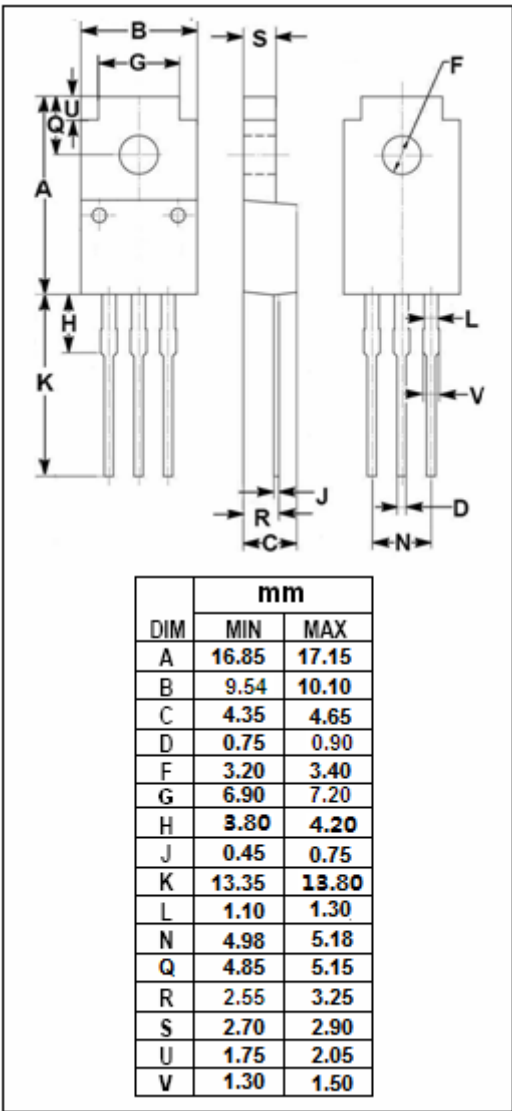
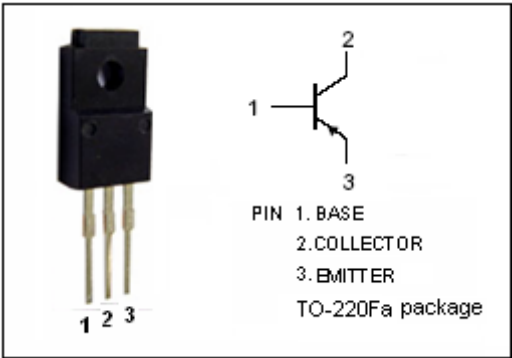
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -0.6V(Max) @ I_C = -1A$
- High Switching Speed
- Complement to Type 2SC3567

APPLICATIONS

- Designed for switching regulator, DC-DC converter and high frequency power amplifier applications.

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	-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 @ $T_C=25^{\circ}C$	15	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-55~150	$^{\circ}C$



isc Silicon PNP Power Transistor**2SA1395****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 _{CEX(SUS)-1}	Collector-Emitter Sustaining Voltage	I _C = -1A; I _{B1} =-I _{B2} = -0.1A, L=180μ H,clamped	-100		V
V _{CEX(SUS)-2}	Collector-Emitter Sustaining Voltage	I _C = -2A; I _{B1} = -0.2A; I _{B2} = 0.1A, L=180μ H,clamped	-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 _{CER}	Collector Cutoff Current	V _{CE} = -100V ; R _{BE} = 51Ω ,T _a =125°C		-1.0	mA
I _{CEX}	Collector Cutoff Current	V _{CE} = -100V; V _{BE(off)} = -5V V _{CE} = -100V; V _{BE(off)} = -5V,T _a =125°C		-10 -1.0	μ A mA
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	

Switching times

t _{on}	Turn-on Time	I _C = -1A ,R _L = 50Ω , I _{B1} = -I _{B2} = -0.1A,V _{CC} ≈-50V		0.5	μ s
t _{stg}	Storage Time			1.5	μ s
t _f	Fall Time			0.5	μ s

◆ **h_{FE-2} Classifications**

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