

isc Silicon PNP Power Transistors
2SA1306/A
DESCRIPTION

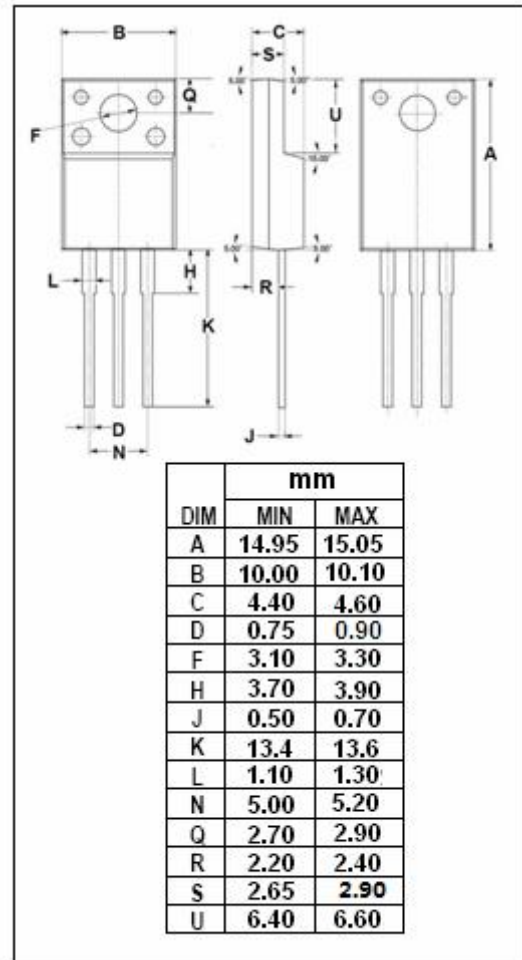
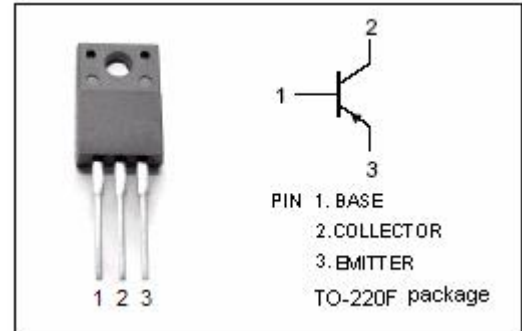
- Good Linearity of h_{FE}
- High Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = -160V(\text{Min})$ -2SA1306
 $= -180V(\text{Min})$ -2SA1306A
- Complement to Type 2SC3298/A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications.
- Driver stage amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	2SA1306	-160	V
		2SA1306A	-180	
V_{CEO}	Collector-Emitter Voltage	2SA1306	-160	V
		2SA1306A	-180	
V_{EBO}	Emitter-Base Voltage	-5	V	
I_C	Collector Current-Continuous	-1.5	A	
I_B	Base Current-Continuous	-0.15	A	
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	20	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	2SA1306	I _c = -10mA; I _B = 0	-160			V
		2SA1306A		-180			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		I _c = -500mA; I _B = -50mA			-1.5	V
V _{BE(on)}	Base-Emitter On Voltage		I _c = -500mA; V _{CE} = -5V			-1.0	V
I _{CB0}	Collector Cutoff Current		V _{CB} = -160V; I _E = 0			-1.0	μ A
I _{EB0}	Emitter Cutoff Current		V _{EB} = -5V; I _c =0			-1.0	μ A
h _{FE}	DC Current Gain		I _c = -100mA ; V _{CE} = -5V	70		240	
f _T	Current-Gain—Bandwidth Product		I _c = -100mA ; V _{CE} = -10V		100		MHz
C _{OB}	Output Capacitance		I _E = 0 ; V _{CB} = -10V; f _{test} = 1.0MHz		30		pF

◆ h_{FE} Classifications

O	Y
70-140	120-240

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