

**isc Silicon PNP Power Transistors**
**2SA1386/A**
**DESCRIPTION**

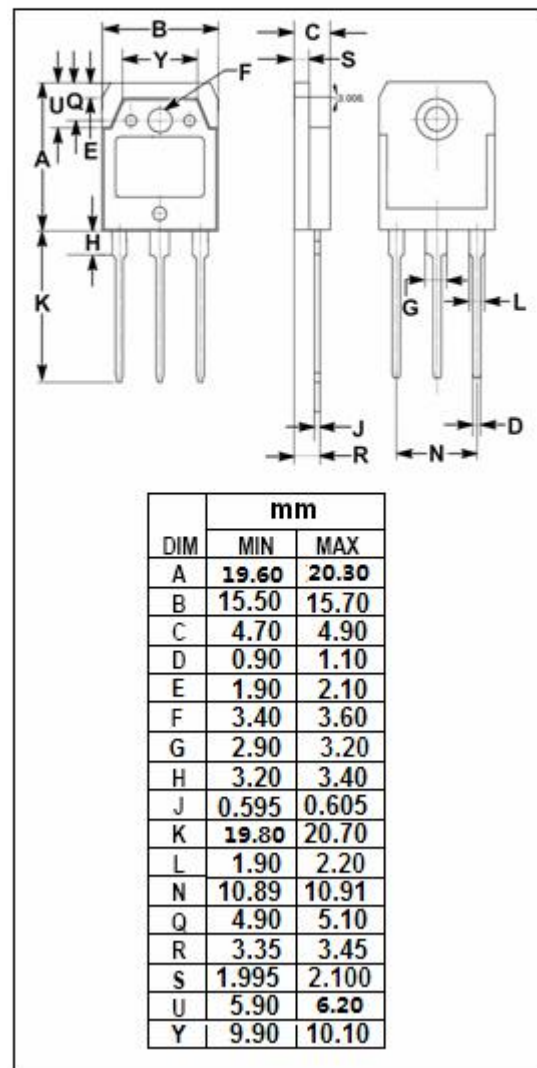
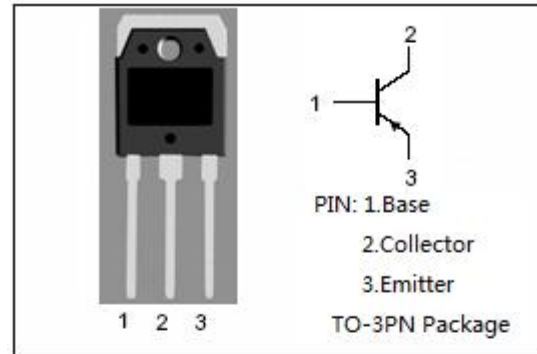
- Collector-Emitter Breakdown Voltage-  
 $V_{(BR)CEO} = -160V(\text{Min})$ -2SA1386  
 $= -180V(\text{Min})$ -2SA1386A
- Good Linearity of  $h_{FE}$
- Complement to Type 2SC3519/A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Designed for audio and general purpose applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	2SA1386	-160
		2SA1386A	-180
$V_{CEO}$	Collector-Emitter Voltage	2SA1386	-160
		2SA1386A	-180
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-15	A
$I_B$	Base Current-Continuous	-4	A
$P_C$	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	130	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<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	2SA1386	I <sub>c</sub> = -25mA ; I <sub>B</sub> = 0	-160			V
		2SA1386A		-180			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		I <sub>c</sub> = -5.0A; I <sub>B</sub> = -0.5A			-2.0	V
I <sub>CBO</sub>	Collector Cutoff Current	2SA1386	V <sub>CB</sub> = -160V; I <sub>E</sub> = 0			-100	μ A
		2SA1386A	V <sub>CB</sub> = -180V; I <sub>E</sub> = 0			-100	
I <sub>EBO</sub>	Emitter Cutoff Current		V <sub>EB</sub> = -5V; I <sub>c</sub> = 0			-100	μ A
h <sub>FE</sub>	DC Current Gain		I <sub>c</sub> = -5A ; V <sub>CE</sub> = -4V	50		180	

**◆ h<sub>FE</sub> Classifications**

O	P	Y
50-100	70-140	90-180

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