

## **isc** Silicon PNP Power Transistor

# 2SA1076

### DESCRIPTION

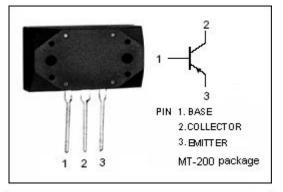
- High Collector-Emitter Breakdown Voltage-V<sub>(BR)CEO</sub>= -160V(Min)
- Good Linearity of h<sub>FE</sub>
- Complement to Type 2SC2526
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

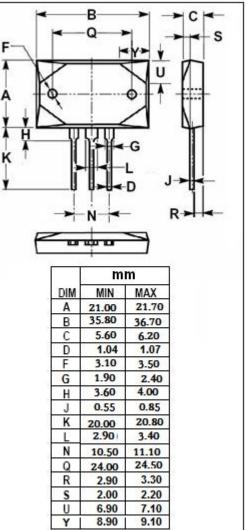
### APPLICATIONS

- · Power amplifier applications
- switching regulators
- DC-DC converter applications.

### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	-160	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-160	V
V <sub>EBO</sub>	Emitter-Base Voltage -7		V
lc	Collector Current-Continuous	-12	A
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	120	W
TJ	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-65~150	°C





isc website: www.iscsemi.com



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### **ELECTRICAL CHARACTERISTICS**

#### $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)EBO</sub>	Emitter –Base Breakdown Voltage	I <sub>C</sub> =- 50uA ; I <sub>B</sub> = 0	-7			V
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> =- 1mA ; I <sub>B</sub> = 0	-160			V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> =- 50uA ; I <sub>B</sub> = 0	-160			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -5A; I <sub>B</sub> = -0.5A		-0.9	-1.8	V
I <sub>СВО</sub>	Collector Cutoff Current	V <sub>CB</sub> = -160V; I <sub>E</sub> = 0			-50	μA
Iceo	Collector Cutoff Current	V <sub>CE</sub> = -160V; R <sub>EB</sub> =∞			-1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -7V; I <sub>C</sub> =0			-50	μA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> =-1A; V <sub>CE</sub> = -5V	60		200	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = - 7A; V <sub>CE</sub> = -5V	40			

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