

**isc Silicon PNP Power Transistor**
**2N5884**
**DESCRIPTION**

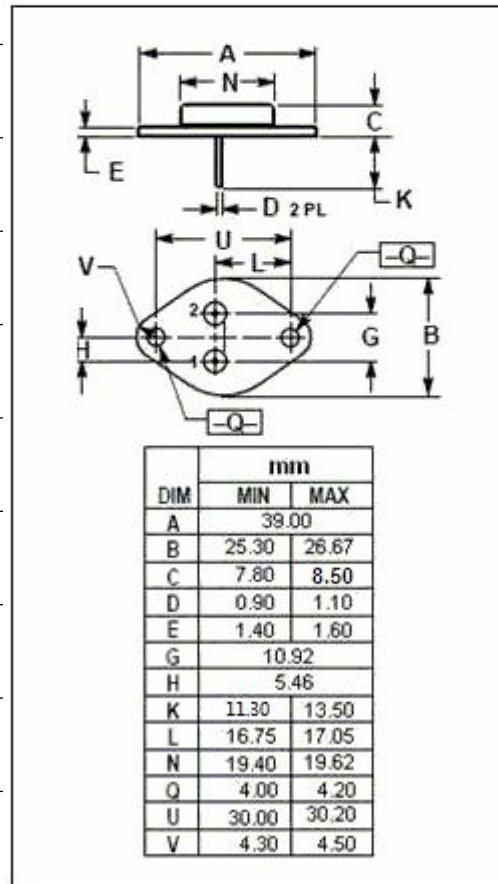
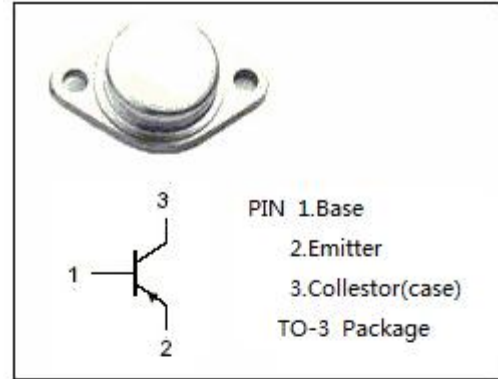
- Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = -80V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device  
Performance and reliable operation

**APPLICATIONS**

- Power amplifier and switching applications

**ABSOLUTE MAXIMUM RATINGS(Ta=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-80	V
$V_{CEO}$	Collector-Emitter Voltage	-80	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-25	A
$I_B$	Base Current-Continuous	-7.5	A
$P_D$	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	200	W
$T_J$	Junction Temperature	200	°C
$T_{stg}$	Storage Temperature Range	-65~200	°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>CE(sat)-1</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -15.0A; I <sub>B</sub> = -1.5A			-1.0	V
V <sub>CE(sat)-2</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -25.0A; I <sub>B</sub> = -6.25A			-4.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -25.0A; I <sub>B</sub> = -6.25A			-2.5	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -10A; V <sub>CE</sub> = -4V			-1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -80V; I <sub>E</sub> = 0			-1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-1	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -3A; V <sub>CE</sub> = -4V	35			
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -10A; V <sub>CE</sub> = -4V	20		100	
h <sub>FE-3</sub>	DC Current Gain	I <sub>C</sub> = -25A; V <sub>CE</sub> = -4V	4			
f <sub>T</sub>	Transistion frequency	I <sub>C</sub> =-1A ; V <sub>CE</sub> =-10V;f=1MHz	4			MHz

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