

isc Silicon PNP Power Transistor

2N5884

DESCRIPTION

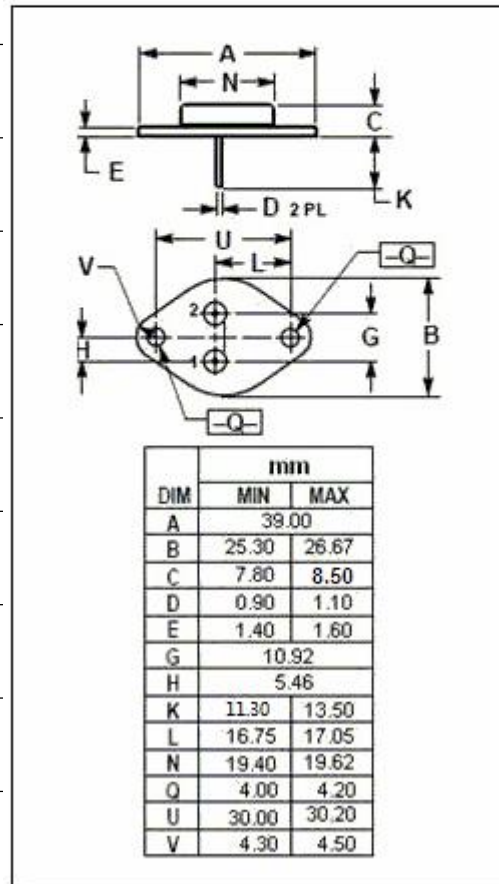
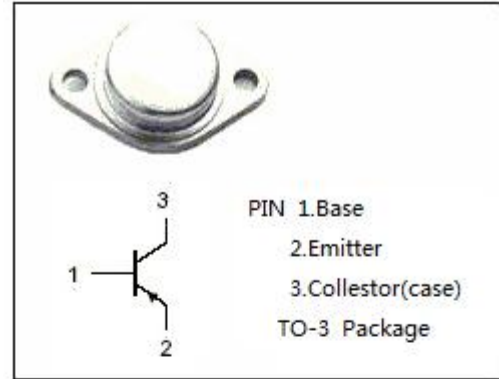
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -80V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device
Performance and reliable operation

APPLICATIONS

- Power amplifier and switching applications

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

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	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~200	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C = -15.0\text{A}; I_B = -1.5\text{A}$			-1.0	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C = -25.0\text{A}; I_B = -6.25\text{A}$			-4.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -25.0\text{A}; I_B = -6.25\text{A}$			-2.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -10\text{A}; V_{CE} = -4\text{V}$			-1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -80\text{V}; I_E = 0$			-1	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}; I_C = 0$			-1	mA
h_{FE-1}	DC Current Gain	$I_C = -3\text{A}; V_{CE} = -4\text{V}$	35			
h_{FE-2}	DC Current Gain	$I_C = -10\text{A}; V_{CE} = -4\text{V}$	20		100	
h_{FE-3}	DC Current Gain	$I_C = -25\text{A}; V_{CE} = -4\text{V}$	4			
f_T	Transistion frequency	$I_C = -1\text{A}; V_{CE} = -10\text{V}; f = 1\text{MHz}$	4			MHz

NOTICE:

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