

**isc Silicon PNP Power Transistor**
**2N6422**
**DESCRIPTION**

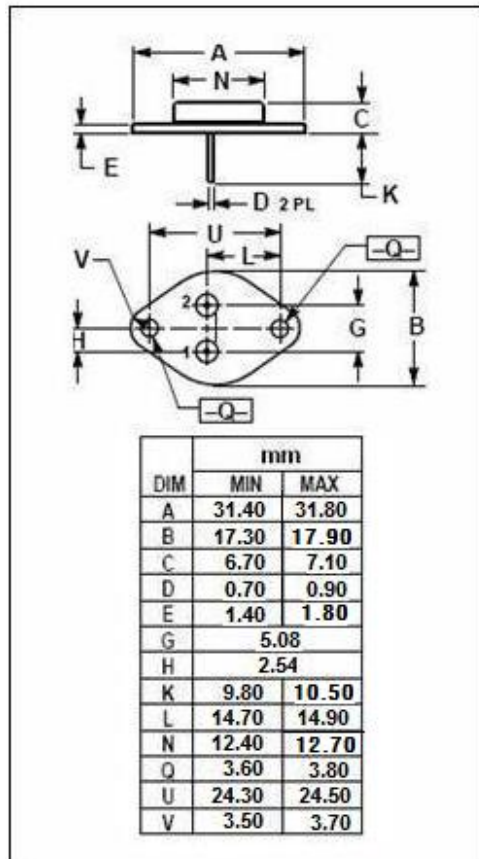
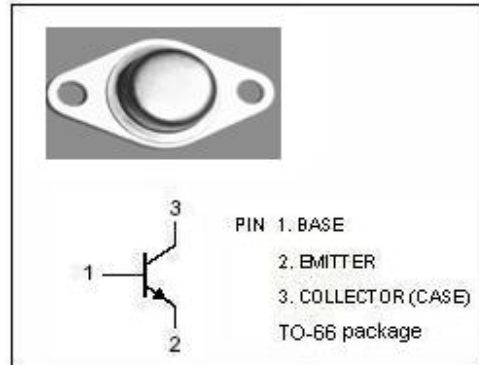
- Collector-Emitter Breakdown Voltage-  
:  $V_{CEO} = -300V$  (Min)
- Minimum Lot-to-Lot variations for robust device  
Performance and reliable operation

**APPLICATIONS**

- Power amplifier and switching applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-500	V
$V_{CEO}$	Collector-Emitter Voltage	-300	V
$V_{EBO}$	Emitter-Base Voltage	-6	V
$I_C$	Collector Current-Continuous	-2	A
$P_D$	Collector Power Dissipation @ $T_C = 25^\circ C$	35	W
$T_J$	Junction Temperature	-65~200	$^\circ C$
$T_{stg}$	Storage Temperature Range	-65~200	$^\circ C$



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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	I <sub>C</sub> =-50mA	-300			V
I <sub>EBO</sub>	Emitter -Base Cutoff Current	V <sub>BE</sub> =- 6V			-500	uA
I <sub>CEO</sub>	Collector-Emitter Cutoff Current	V <sub>CB</sub> =- 150V			-5	mA
V <sub>CE(sat)-1</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -0.75A; I <sub>B</sub> =-0.075A			-0.75	V
V <sub>CE(sat)-2</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -1A; I <sub>B</sub> =-0.125A			-0.75	V
V <sub>BE(sat)-1</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -0.75A; I <sub>B</sub> =-0.075A			-1.4	V
V <sub>BE(sat)-2</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -1A; I <sub>B</sub> =-0.125A			-1.4	V
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> =-1A; V <sub>CE</sub> =-2V	8		80	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> =-1A; V <sub>CE</sub> = -10V	25		100	

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