

isc Silicon NPN Power Transistor
2N5661
DESCRIPTION

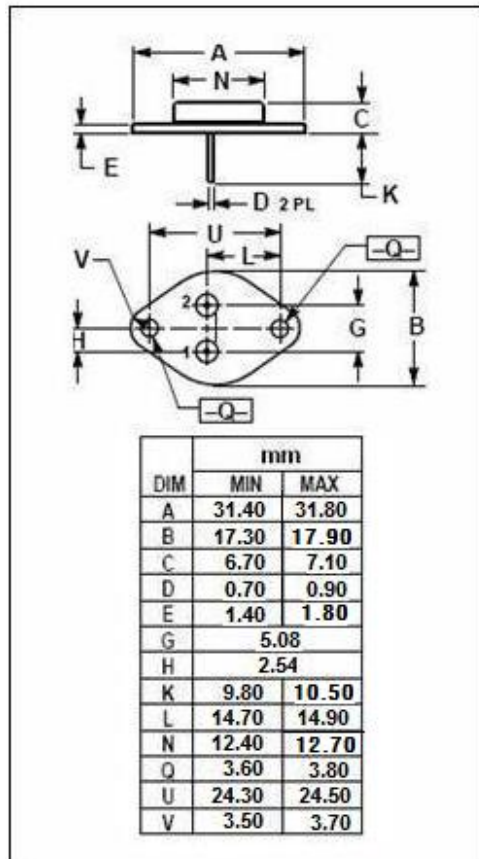
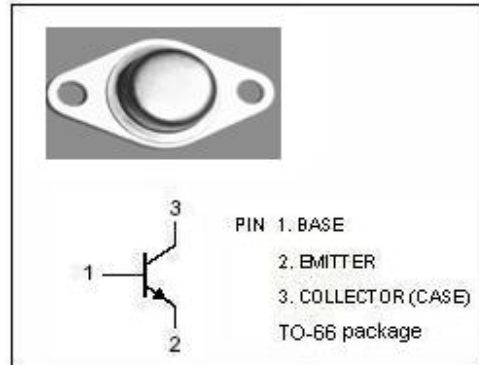
- Collector-Emitter Breakdown Voltage-
: $V_{CEO}=300V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device
Performance and reliable operation

APPLICATIONS

- Power amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	400	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 @ $T_C=25^\circ\text{C}$	2	W
T_J	Junction Temperature	-65~200	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~200	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA	300			V
I _{CBO}	Collector-Base Cutoff Current	V _{CB} = 300V			0.1	uA
I _{CEO}	Collector-Emitter Cutoff Current	V _{CE} = 300V			0.2	uA
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			0.4	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			0.8	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.2	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.5	V
h _{FE-1}	DC Current Gain	I _C =50mA; V _{CE} = 2V	25			
h _{FE-2}	DC Current Gain	I _C =500mA; V _{CE} = 5V	25		75	
h _{FE-3}	DC Current Gain	I _C =1A; V _{CE} = 5V	15			
h _{FE-4}	DC Current Gain	I _C =2A; V _{CE} = 5V	5			

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