

2N5665



isc Silicon NPN Power Transistor

DESCRIPTION

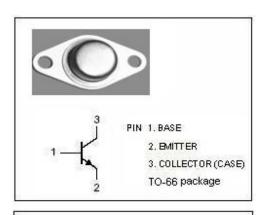
- · Collector-Emitter Breakdown Voltage-
 - : V_{CEO}=300V(Min)
- · Minimum Lot-to-Lot variations for robust device Performance and reliable operation

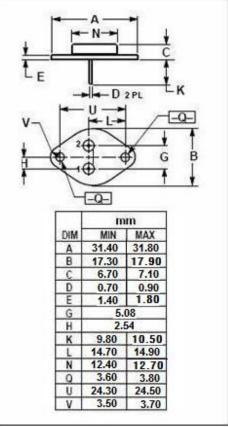
APPLICATIONS

· Power amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNI T
V _{CBO}	Collector-Base Voltage	400	V
Vceo	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current-Continuous	5	Α
P _D	Collector Power Dissipation @ T _C =25 ℃	2.5	W
TJ	Junction Temperature	-65~200	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~200	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V(BR)EBO	Collector-Emitter Breakdown Voltage	I _B =10uA	6			V
Ісво	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 =3A; I _B = 0.6A			0.4	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1	V
V _{BE} (sat)-1	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.2	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C =5A; I _B = 1A			1.5	V
h _{FE-1}	DC Current Gain	Ic=500mA; Vc== 2V	25			
h _{FE-2}	DC Current Gain	I _C =1A; V _{CE} = 5V	25		75	
h _{FE-3}	DC Current Gain	Ic=3A; V _{CE} = 5V	10			
h _{FE-4}	DC Current Gain	I _C =5A; V _{CE} = 5V	5			

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