

isc Silicon NPN Power Transistor

2N6078

DESCRIPTION

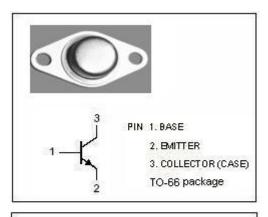
- Low Collector-Emitter Sustaining Voltage
- High voltage
- · Low Collector-Emitter Saturation Voltage-
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

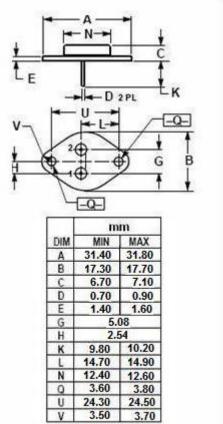
APPLICATIONS

- · Linear applications
- Power switching circuits

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{сво}	Collector-Base Voltage	275	V
V _{CEO}	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current	7	А
I _{CM}	Collector Current-peak	10	А
I _B	Base Current	4	A
PC	Collector Power Dissipation @TC=25°C	45	W
Tj	Junction Temperature	200	°C
T _{stg}	Storage Temperature Range	-65~200	°C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
Vceo(sus)*	Collector-Emitter Sustaining Voltage	I _C = 200mA; I _B = 0	250			V
V _{CE} (sat)-1*	Collector-Emitter Saturation Voltage	I _C = 1.2A; I _B = 0.2A			0.5	V
V CE(sat)-2*	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1.0A			3	V
V _{BE} (sat)-1*	Base-Emitter Saturation Voltage	I _C = 1.2A; I _B = 0.2A			1.6	V
V _{BE(sat)-2*}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1.0A			2.0	V
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	I _C = 1.2A; V _{CE} = 1V	12	28	70	
Сов	Output Capacitance	V _{CB} = 10V;I _E = 0; f= 1MHz		150		pF

*:Pulse test:Pulse width=300us,duty cycle≤2%

NOTICE:

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