

isc Silicon NPN Power Transistor

AD161

DESCRIPTION

- Wide Area of Safe Operation
- DC Current Gain-
- : h_{FE}=50-350@I_C= 0.5A
- Collector-Emitter Saturation Voltage-
 - : V_{CE(sat})= 0.7V(Max)@ I_C= 3A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

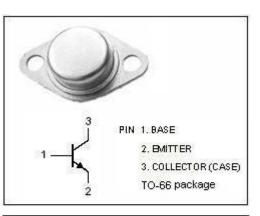
• Designed for general-purpose power switch and amplifier, consumer and industrial applications.

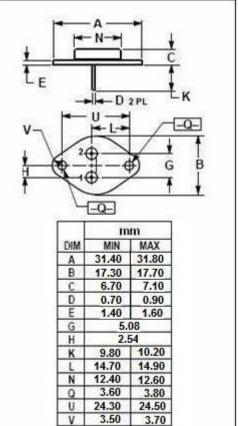
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	32	V		
V _{CEO}	Collector-Emitter Voltage	20	V		
V _{EBO}	Emitter-Base Voltage	6	V		
Ic	Collector Current-Continuous	3	А		
Pc	Collector Power Dissipation @Tc=25°C	4	W		
TJ	Junction Temperature	90	°C		
T _{stg}	Storage Temperature	-55~200	°C		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.52	°C/W





1



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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 100mA ; I _B = 0	50		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ; I _E = 0	50		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	6		V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		0.7	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		1.2	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 50V; I _B = 0		0.1	mA
I _{СВО}	Collector Cutoff Current	V_{CB} = 32V; I _E = 0		0.5	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.0V; I _C =0		10	μA
h _{FE}	DC Current Gain	Ic= 0.5A ; V _{CE} = 1V	50	350	

NOTICE:

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2