

ISC Silicon NPN Power Transistor

AD162

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

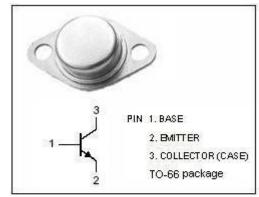
• Designed for general-purpose power switch and amplifier, consumer and industrial applications.

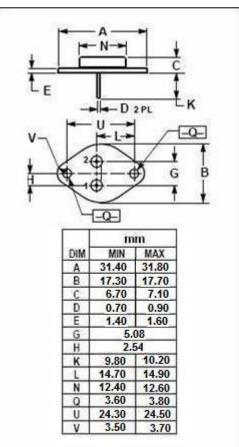
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	50	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	3	Α	
Pc	Collector Power Dissipation @T _C =25°C	20	W	
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~200	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	8.75	°C/W







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA ; 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				
Ісво	Collector Cutoff Current	V _{CB} = 32V; I _E = 0		0.5	μА				
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6.0V; I _C =0		10	μА				
h _{FE}	DC Current Gain	I _C = 0.5A ; V _{CE} = 1V	50	350					

NOTICE:

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