

ISC Silicon PNP Power Transistor

AD149

DESCRIPTION

- · Wide Area of Safe Operation
- DC Current Gain-
 - : h_{FE}=30-100@I_C= -1A
- · 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

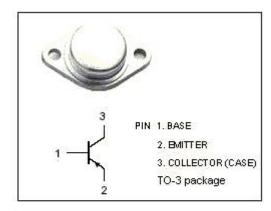
• Designed for general-purpose power switch and amplifier, consumer and industrial applications.

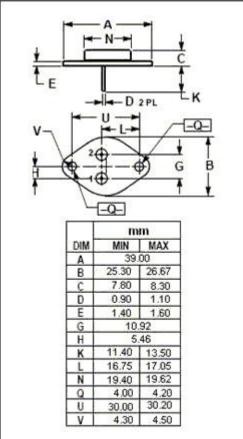
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

71202012 iiii 21iiii 200(12 200)						
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	-3.5	Α			
Pc	Collector Power Dissipation @T _C =25°C 30		W			
TJ	Junction Temperature	200	$^{\circ}$			
T _{stg}	Storage Temperature	-55~200	$^{\circ}$			

THERMAL CHARACTERISTICS

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







isc Silicon PNP Power Transistor

AD149

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

	1) 20 0 unico o cinervico oposito								
SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	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 _{CBO}	Collector Cutoff Current	V _{CB} = -50V; I _E = 0		-10	μА				
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7.0V; I _C =0		-10	μА				
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	30	150					

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

isc website: www.iscsemi.cn