

isc Silicon NPN Power Transistor

2SD536

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 200V(Min)
- Excellent Safe Operating Area
- · High Current Capability
- · Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

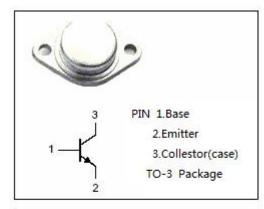


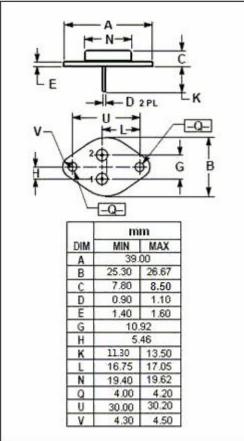
APPLICATIONS

- Switching regulators
- DC-DC converters.
- General purpose power amplifiers.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	200	٧		
V _{CEO}	Collector-Emitter Voltage	Voltage 200			
V _{EBO}	Emitter-Base Voltage	6	V		
lc	Collector Current-Continuous	10	Α		
lΒ	Base Current-Continuous	5	Α		
Pc	Collector Power Dissipation @ T _C =25°C	100	W		
TJ	Junction Temperature	150	$^{\circ}$		
T _{stg}	Storage Temperature Range		$^{\circ}\!$		







isc Silicon NPN Power Transistor

2SD536

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	Ic= 30mA ;I _B = 0	200			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA; I _C = 0	200			V
V _(BR) CBO	Collector-base breakdown voltage	Ic=0.1mA; I _E =0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	٧
Ісво	Collector Cutoff Current	V _{CB} =200V; I _E =0			0.1	mA
I _{EBO}	Emitter Cutoff current	V _{EB} =5V; I _C =0			0.1	mA
h _{FE-1}	DC Current Gain	Ic= 1A; V _{CE} = 5V	60		200	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	50			

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.com

² isc & iscsemi is registered trademark