



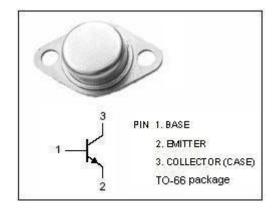
isc Silicon NPN Power Transistor

DESCRIPTION

- · High Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 400V (Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

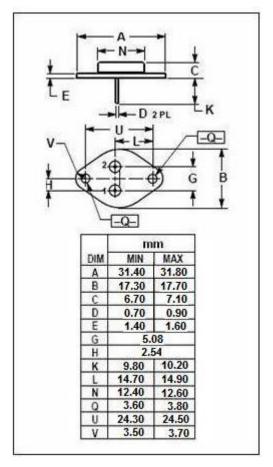
APPLICATIONS

- · Power switching
- Power amplification
- Power driver



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V _{CBO}	Collector-Base Voltage	450	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	5	Α
I _{CM}	Collector Current-Peak	10	Α
lв	Base Current-Continuous	2	Α
Pc	Collector Power Dissipation @T _C =25°C	40	W
Tj	Junction Temperature	175	$^{\circ}$
T_{stg}	Storage Temperature Range	-65~175	$^{\circ}$





isc Silicon NPN Power Transistor

2SC2247

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

1c=25 C unless otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{CEO(SUS)}	Collector-Emitter Sustainig Voltage	I _C = 50mA; L= 25mH	400			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.2	V			
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.5	V			
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	10						
Ісво	Collector Cutoff Current	V _{CB} = 450V; I _E = 0 T _C =125℃			1.0 4.0	mA			
I _{CEO}	Collector Cutoff Current	V _{CE} = 400V; I _B = 0			5.0	mA			
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA			
Switching Times									
t _r	Rise Time				1.0	μ s			
t _{stg}	Storage Time	I _C =2A; I _{B1} =- I _{B2} = 0.4A			2.0	μ s			
t _f	Fall Time				1.0	μ S			

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