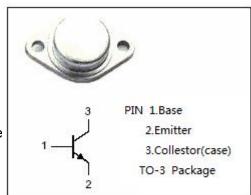


isc Silicon NPN Power Transistor

2SD867

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 110V(Min).
- Excellent Safe Operating Area
- · Low collector saturation voltage
 - : $V_{CE(sat)}$ = 3.0V(Max)@ I_C = 10A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

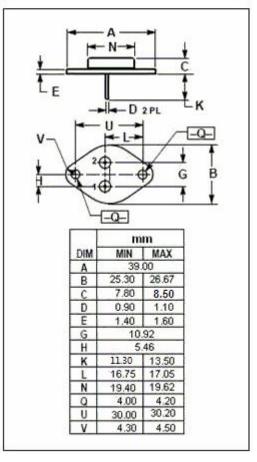


APPLICATIONS

· High voltage high current power transistors

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	130	V
V_{CEO}	Collector-Emitter Voltage	110	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	10	А
I _{CP}	Collector Current-Peak	15	Α
I _B	Base Current-Continuous	7	Α
Pc	Collector Power Dissipation@Tc=25°C		W
TJ	Junction Temperature 175		$^{\circ}$ C
T _{stg}	Storage Temperature -65~175		$^{\circ}$ C





isc Silicon NPN Power Transistor

2SD867

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

	- ·				
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	110		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.0	V
VCE(sat) -2	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 3.3A		3.0	٧
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A; V _{CE} = 4V		2.0	V
Iceo	Collector Cutoff Current	V _{CE} = 110V; I _B = 0		1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.0V; I _C = 0		0.1	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	50	200	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	20		
h _{FE-3}	DC Current Gain	I _C = 10A; V _{CE} = 5V	5		
f⊤	Current Gain-Bandwidth Product	I _C = 1A; V _{CE} = 5V;	3		kHz

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.

2

isc website: www.iscsemi.com