

isc Silicon NPN Power Transistors

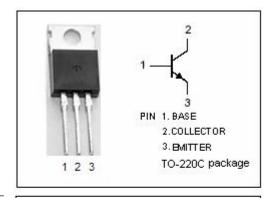
ISCND217P

DESCRIPTION

- DC Current Gain -h_{FE} = 150(Min)@ I_C= 0.8A
- · Collector-Emitter Sustaining Voltage-
 - : $V_{CEO(SUS)} = 100V(Min)$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Designed for use in general purpose amplifer and switching applications

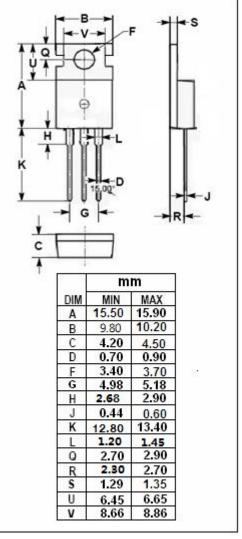


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	100	V	
V _{CEO}	Collector-Emitter Voltage 100			
V _{EBO}	Emitter-Base Voltage 5		V	
Ic	Collector Current-Continuous 6		Α	
I _{CM}	Collector Current-Peak	10	Α	
I _B	Base Current	3		
Pc	Collector Power Dissipation T_c =25 $^{\circ}$ C	65	W	
	Collector Power Dissipation T _a =25℃	2		
T _j	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.92	°C/W



isc website: www.iscsemi.com

isc & iscsemi is registered trademark



isc Silicon NPN Power Transistors

ISCND217P

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	100		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.5A		1.5	V
V _{BE} (on)	Base-Emitter On Voltage	I _C = 6A; V _{CE} = 4V		2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 100V; I _E = 0		0.4	mA
Iceo	Collector Cutoff Current	V _{CE} = 60V; I _B = 0		0.7	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		1.0	mA
h _{FE-1}	DC Current Gain	I _C = 0.8A; V _{CE} = 2V	150	250	

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

isc & iscsemi is registered trademark