



ISC Silicon NPN Power Transistor

DESCRIPTION

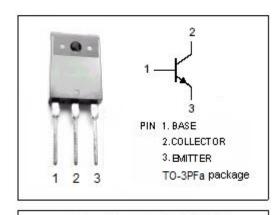
- · Low Collector Saturation Voltage-
- : V_{CE(sat)}= 2.0V(Max)@I_C= 5A
- · Wide Area of Safe Operation
- Complement to Type 2SB1056
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

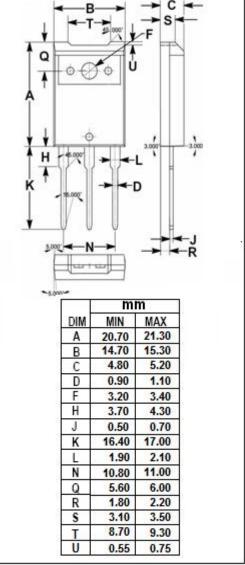
APPLICATIONS

· Designed for high power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	140	V	
V _{CEO}	Collector-Emitter Voltage	140	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	7	Α	
Ісм	Collector Current-Peak	12	Α	
P _C	Collector Power Dissipation @ T _a =25℃	3	W	
	Collector Power Dissipation @ T _C =25℃	80		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150		







isc Silicon NPN Power Transistor

2SD1487

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	٧
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A; V _{CE} = 5V			1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 140V; I _E = 0			50	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			50	μА
h _{FE-1}	DC Current Gain	I _C = 20mA; V _{CE} = 5V	20			
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	40		200	
h _{FE-3}	DC Current Gain	I _C = 5A; V _{CE} = 5V	20			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		330		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		20		MHz

♦ h_{FE-2} Classifications

R	Q	Р
40-80	60-120	100-200

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