

isc Silicon PNP Power Transistor

2SA1141

DESCRIPTION

- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= -115V(Min)
- · Good Linearity of hFE
- Complement to Type 2SC2681
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

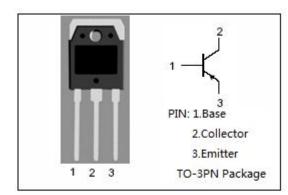
APPLICATIONS

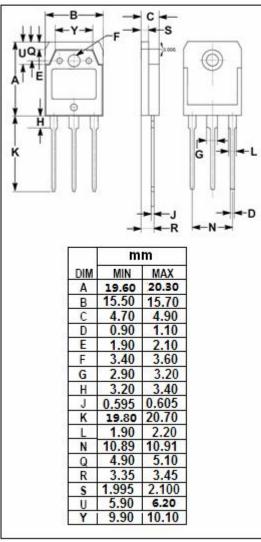


- Audio frequency power amplifier
- · High frequency power amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	-115	V	
V _{CEO}	Collector-Emitter Voltage	-115	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-10	Α	
Ісм	Collector Current-Peak	-15	Α	
P _C	Collector Power Dissipation @ T _a =25℃	2.0 W		
	Collector Power Dissipation @ T _C =25℃	100		
TJ	Junction Temperature	unction Temperature 150 °C		
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







isc Silicon PNP Power Transistor

2SA1141

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4.5A; I _B = -0.45A			-1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -4.5A; V _{CE} = -2V			-2.0	V
Ісво	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-50	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-50	μА
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -2V	60		200	
h _{FE-2}	DC Current Gain	I _C = -4.5A; V _{CE} = -2V	40			
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1.0MHz		390		pF
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -2V		90		MHz

♦ h_{FE-1} Classifications

R	Q
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.