

isc Silicon NPN Power Transistor

DESCRIPTION

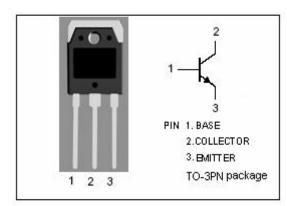
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 115V(Min)
- · Good Linearity of hFE
- · Complement to Type 2SA1141
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

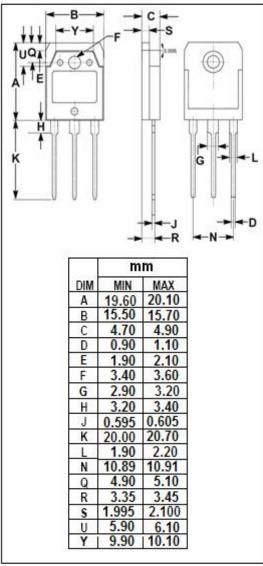
APPLICATIONS

- Audio frequency power amplifier
- · High frequency power amplifier



SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	115	V	
V _{CEO}	Collector-Emitter Voltage 115		V	
V _{EBO}	Emitter-Base Voltage 5		V	
lc	Collector Current-Continuous	А		
Ісм	Collector Current-Peak	15 A		
Pc	Collector Power Dissipation @ T _a =25℃	2.0	- w	
	Collector Power Dissipation @ T _C =25℃	100		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$	







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2SC2681

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		230		pF
f _T	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 2V		80		MHz

♦ h_{FE-1} Classifications

R	Q
60-120	100-200

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