

ISC Silicon NPN Power Transistor

2SD2066

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 160V(Min)
- · Good Linearity of hFE
- High transition frequency(f_T)
- · Wide area of satety operation
- Complement to Type 2SB1373
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

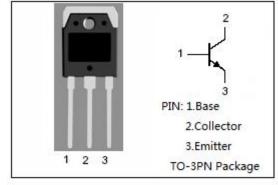


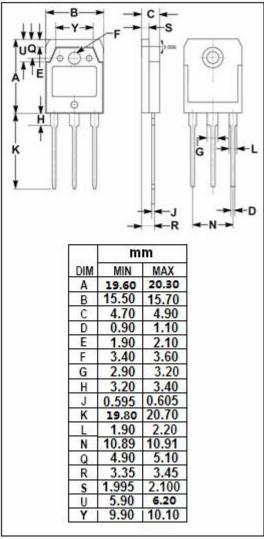
APPLICATIONS

• Designed for high power amplifier and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	160	V
Vceo	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	12	Α
Ісм	Collector Current-Peak	20	Α
P _C	Collector Power Dissipation @ T _C =25°C	120	W
TJ	Junction Temperature 150		$^{\circ}$ C
T _{stg}	T _{stg} Storage Temperature Range		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	160			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 8A ; V _{CE} = 5V			1.8	V
Ісво	Collector Cutoff Current	V _{CB} = 160V; 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	60		200	
h _{FE-3}	DC Current Gain	I _C = 8A; V _{CE} = 5V	20			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V;f _{test} = 1.0MHz		210		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 5V		20		MHz

♦ h_{FE-2}Classifications

Q	S	Р	
60-120	80-160	100-200	

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