

isc Silicon NPN Power Transistor

TTC0001

DESCRIPTION

- · Low Collector Saturation Voltage
- · Good Linearity of hFE
- Complement to Type TTA0001
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

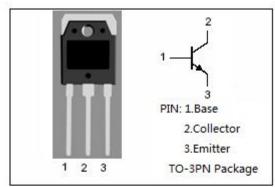
APPLICATIONS

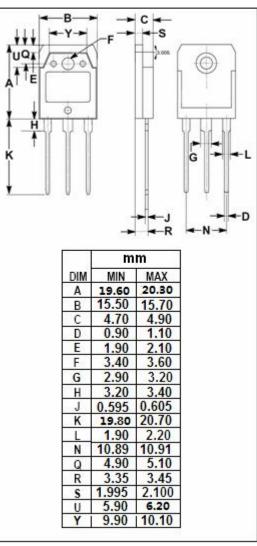


- · Power amplifier applications
- Recommend for 100W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	160	V	
V _{CEO}	Collector-Emitter Voltage	160	V	
V _{EBO}	Emitter-Base Voltage 5		V	
Ic	Collector Current-Continuous	18	Α	
I _B	Base Current-Continuous	9	Α	
Pc	Collector Power Dissipation @ T _C =25°C	150	W	
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature Range -55~15		${\mathbb C}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA ; I _B = 0	160			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 9A; I _B = 0.9A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 9A ; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 160V ; I _E =0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0			1.0	μ A
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	80		160	
h _{FE-2}	DC Current Gain	I _C = 9A ; V _{CE} = 5V	35			
Сов	Output Capacitance	I _E =0 ; V _{CB} = 10V; f _{test} = 1.0MHz		410		pF
f⊤	Current-Gain—Bandwidth Product	Ic=1A ; V _{CE} = 5V		30		MHz

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