

isc Silicon NPN Power Transistor

2SC5199

DESCRIPTION

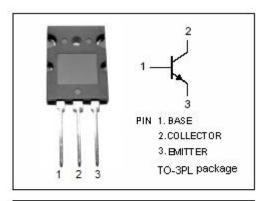
- · High Current Capability
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 160V(Min)
- Complement to Type 2SA1942
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

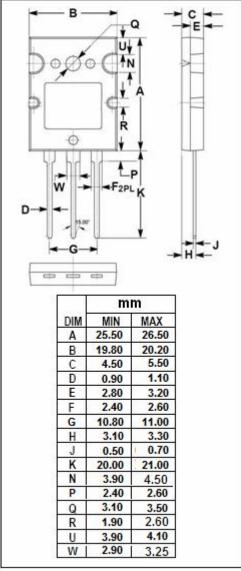
APPLICATIONS

- · Power amplifier applications
- Recommend for 80W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	160	٧
Vceo	Collector-Emitter Voltage	V	
V _{EBO}	Emitter-Base Voltage	V	
lc	Collector Current-Continuous	Α	
I _B	Base Current-Continuous 1.2		Α
Pc	Collector Power Dissipation @ Tc=25°C 120		W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}\mathbb{C}$







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ELECTRICAL CHARACTERISTICS

 T_{c} =25°C 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 = 8.0A; I _B = 0.8A			2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 6A; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			5	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μА
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160	
h _{FE-2}	DC Current Gain	I _C = 6A; V _{CE} = 5V	35			
Сов	Output Capacitance	I _E =0; V _{CB} = 10V; f _{test} = 1.0MHz		170		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		30		MHz

♦ h_{FE-1} Classifications

R	0			
55-110	80-160			

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