

isc Silicon NPN Power Transistor

2SC5242

DESCRIPTION

- · High Collector Breakdown Voltage-
 - : V_{(BR)CEO}= 230V(Min.)
- · Good Linearity of hFE
- Complement to Type 2SA1962
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



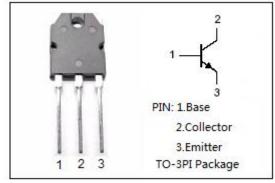
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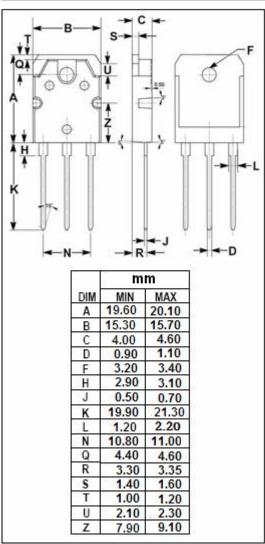
APPLICATIONS

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



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	230	٧
V _{CEO}	Collector-Emitter Voltage	230	V
V _{EBO}	Emitter-Base Voltage	5	٧
Ic	Collector Current-Continuous 15		Α
I _B	Base Current-Continuous 1.5		Α
P _C	Collector Power Dissipation @ T _C =25℃ 130		W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$







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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	230			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A			3.0	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = 7A ; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 230V ; I _E = 0			5	μА
I _{ЕВО}	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 = 7A; V _{CE} = 5V	35			

♦ h_{FE-1} Classifications

R	0
55-110	80-160

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