

isc Silicon NPN Power Transistor

2SD544

DESCRIPTION

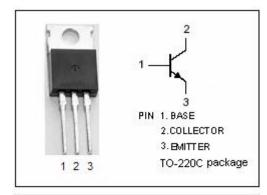
- · Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)} = 90V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)} = 2.0V(Max.)$ @ $I_C = 4.0A$
- With TO-220C Package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

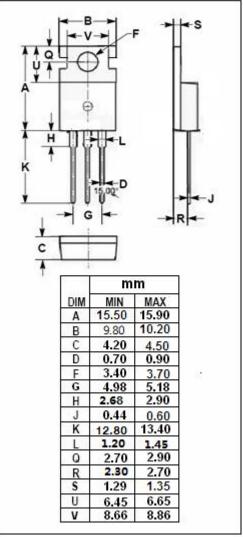


 Designed for audio frequency power amplifier and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage		V
V _{CEO}	Collector-Emitter Voltage	90	V
V_{EBO}	Emitter-Base Voltage 8		V
Ic	Collector Current-Continuous	5	Α
Ісм	Collector Current-Peak	8	Α
lΒ	Base Current-Continuous	2	Α
Pc	Collector Power Dissipation @ T _c =25°C	43	W
TJ	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range -65~150		$^{\circ}$







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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 = 30mA; I _B = 0	90			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 100uA; I _C = 0	8			V
V _(BR) CBO	Collector-base breakdown voltage	Ic=1mA; I∈=0	100			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 1A			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	Ic= 0.1A; VcE= 2V	60			

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