

isc Silicon NPN Power Transistor

2SC4495

DESCRIPTION

- · Fast switching speed
- · Silicon NPN planar diffused planar transistor
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

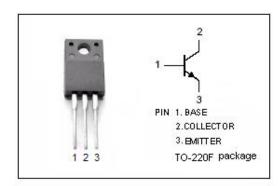
APPLICATIONS

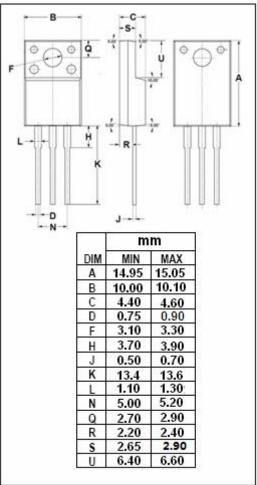


· Audio temperature compensation and general purpose

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	3	А
I _B	Base Current-Continuous	1	А
Pc	Collector Power Dissipation @T _C =25℃	25	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	°C







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	50			V
Vce(sat)	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 20mA			0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 4V	500			
f⊤	Current-Gain—Bandwidth Product	I _E = -0.1A; V _{CE} = 12V		40		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		30		pF

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