

isc Silicon NPN Power Transistors
2SC2592
DESCRIPTION

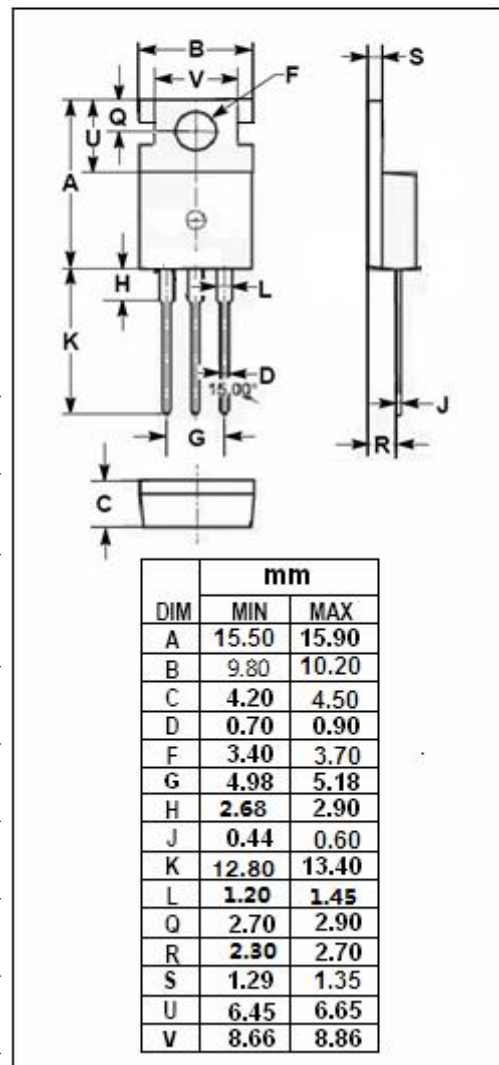
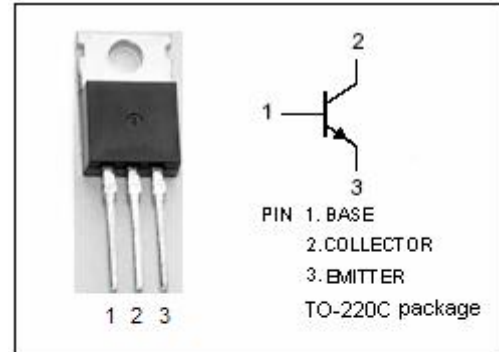
- Silicon NPN epitaxial planar type
- High transition frequency
- Complement to Type 2SA1112
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- AF Driver, High power Amplifier complementary Pairs with 2SA1112.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	180	V
V _{CEO}	Collector-Emitter Voltage	180	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	1.0	A
P _C	Collector Power Dissipation @ T _C =25°C	20	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA; I _B = 50mA			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 500mA; I _B = 50mA			2.0	V
h _{FE1}	DC Current Gain	I _C = 150mA ; V _{CE} = 10V	90		330	
h _{FE2}	DC Current Gain	I _C = 500mA ; V _{CE} = 5V	50			
f _T	Current-Gain—Bandwidth Product	I _C = 50mA ; V _{CE} = 10V		200		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f _{test} = 1.0MHz		20	30	pF

◆ h_{FE} Classifications

Q	R	S
90-155	130-220	185-330

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