

isc Silicon NPN Power Transistor

2SC1569

DESCRIPTION

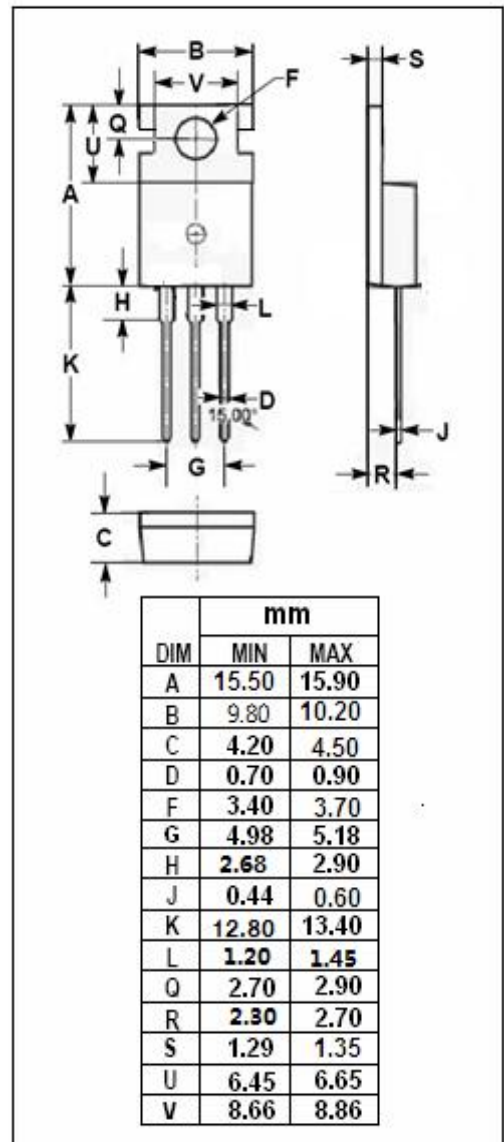
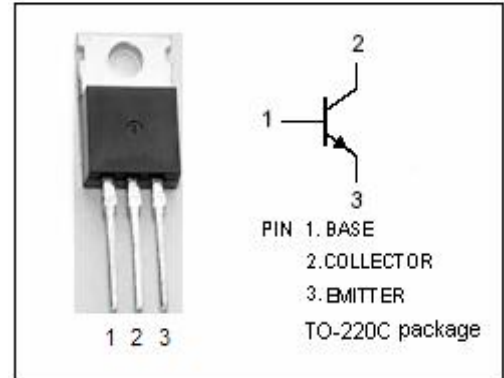
- High Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 300V(\text{Min})$
- DC Current Gain-
: $h_{FE} = 40-170 @ I_C = 50mA, V_{CE} = 10V$
- High Current-Gain Bandwidth Product
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for color TV chroma output applications.

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	300	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	150	mA
I_E	Emitter Current-Continuous	150	mA
P_C	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	1.5	W
	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	12.5	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SC1569****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 = 5mA ; I _B = 0	300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 100mA; I _B = 20mA			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 100mA; I _B = 20mA			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V ; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	μ A
h _{FE}	DC Current Gain	I _C = 50mA ; V _{CE} = 10V	40		170	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = 50V; f _{test} = 1MHz		5		pF
f _T	Current-Gain—Bandwidth Product	I _C = 30mA; V _{CE} = 10V	40			MHz

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