

isc Silicon NPN Power Transistor
2SC6090
DESCRIPTION

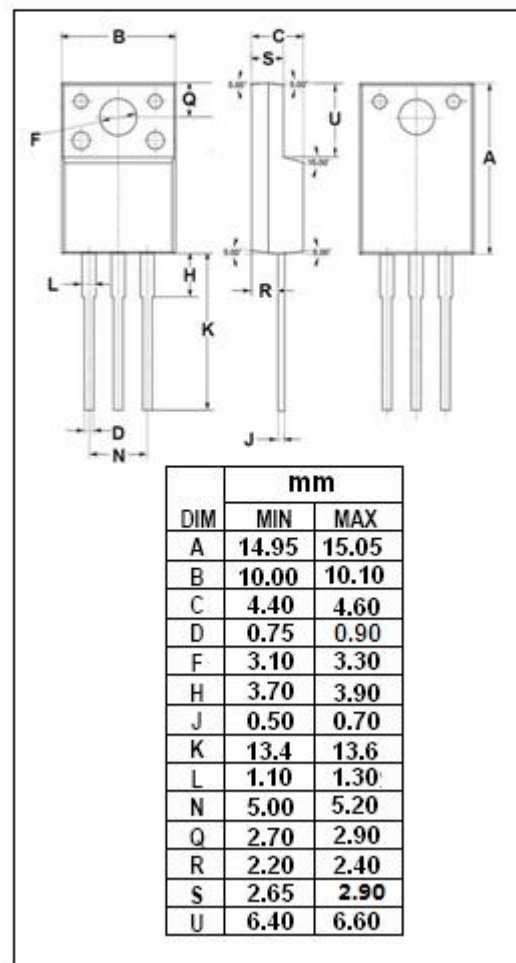
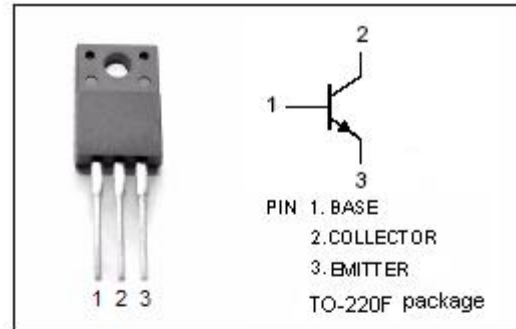
- Collector-Base Breakdown Voltage-
: $V_{(BR)CEO} = 1500V$ (Min)
- High Speed Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for Color TV horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	700	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	10	A
I_{CP}	Collector Current-Pulse	25	A
P_C	Collector Power Dissipation @ $T_a=25^\circ C$	2	W
	Collector Power Dissipation @ $T_C=25^\circ C$	35	
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 _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _c = 100mA; I _B = 0	700			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _c = 7.2A; I _B = 1.44A			3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _c = 7.2A; I _B = 1.44A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} =800V; I _E = 0			10	μ A
I _{CES}	Collector Cutoff Current	V _{CE} =1500V; R _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _c = 0			1.0	mA
h _{FE-1}	DC Current Gain	I _c = 1A; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _c = 8A; V _{CE} = 5V	5		7	
Switching times						
t _f	Fall Time	I _c = 5A; I _{B1} = 1A; I _{B2} = -2A			0.2	μ s

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