

isc Silicon NPN Power Transistor

2SC6093

DESCRIPTION

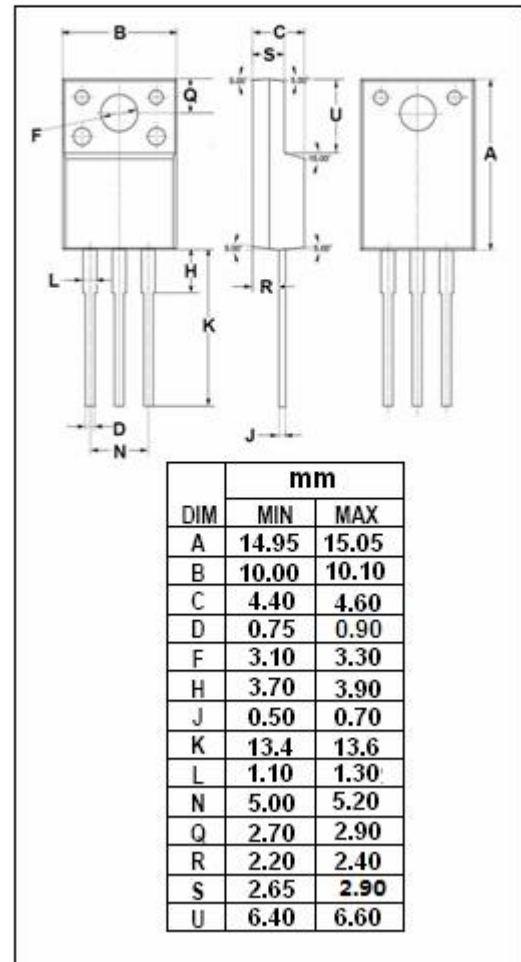
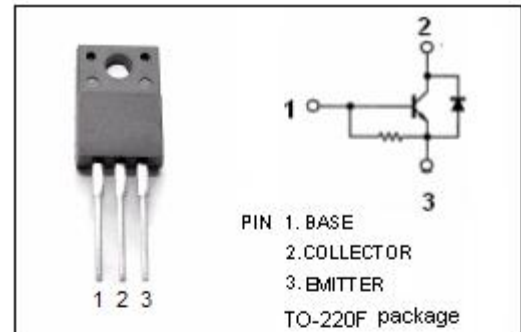
- Low saturation voltage
- Built-in damper diode type
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high voltage color display horizontal deflection output applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current- Continuous	5	A
I_B	Base Current- Continuous	2	A
I_{CP}	Collector Current-Pulse	12	A
P_C	Collector Power Dissipation @ $T_a=25^{\circ}\text{C}$	2	W
	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	25	
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



isc Silicon NPN Power Transistor**2SC6093****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)} -1	Collector-Emitter Saturation Voltage	I _C = 1.35A; I _B = 0.27A	0.1		0.3	V
V _{CE(sat)} -2	Collector-Emitter Saturation Voltage	I _C = 2.7A; I _B = 0.54A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.7A; I _B = 0.54A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0	40		130	mA
h _{FE-1}	DC Current Gain	I _C =0.5A; V _{CE} = 5V	10			
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	5.3		7.5	

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