

isc Silicon NPN Power Transistor

2SC6082

DESCRIPTION

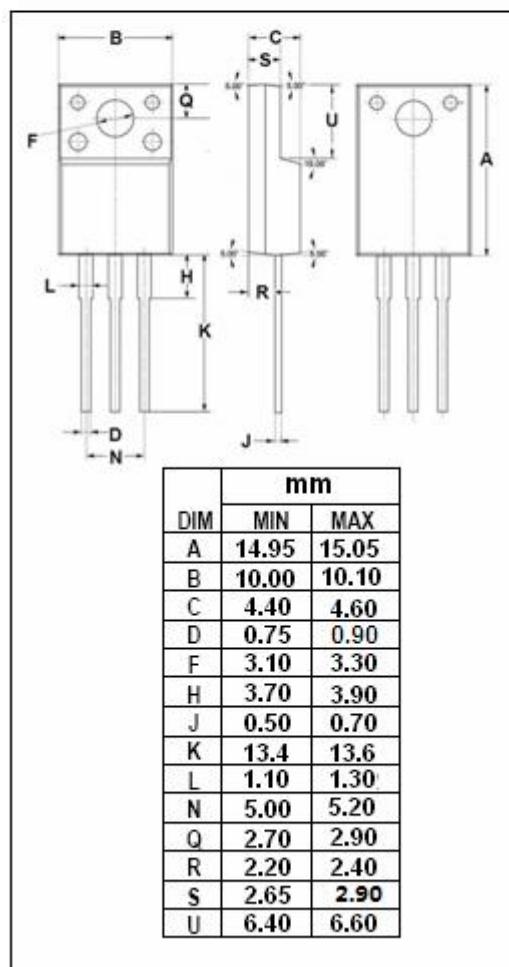
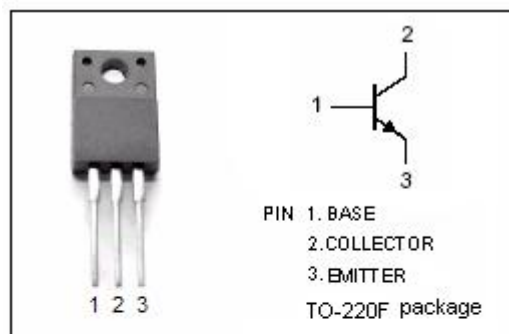
- Large current capacitance
- High speed switching
- Low saturation voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High speed switching applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current- Continuous	15	A
I_B	Base Current- Continuous	3	A
I_{CP}	Collector Current-Pulse	20	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	2	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	23	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SC6082****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 = 7.5A; I _B = 0.375A			0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7.5A; I _B = 0.375A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			10	μ A
h _{FE-1}	DC Current Gain	I _C = 330mA; V _{CE} = 2V	200		560	
h _{FE-2}	DC Current Gain	I _C = 10A; V _{CE} = 2V	50			
t _{stg}	Storage Time	I _C = 5A, I _{B1} = 0.25A; I _{B2} = -0.25A		560		ns
t _f	Fall Time			37		ns

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