

isc Silicon PNP Power Transistor

2SA1822

DESCRIPTION

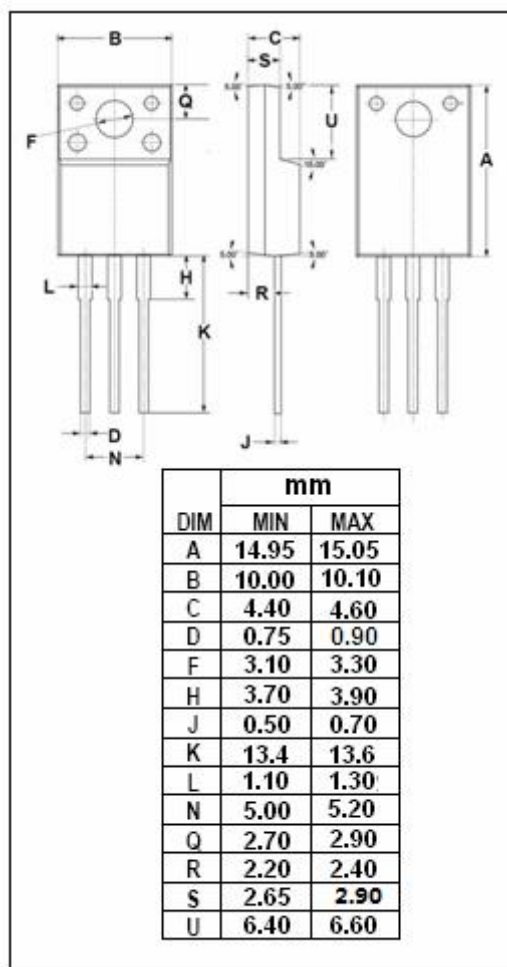
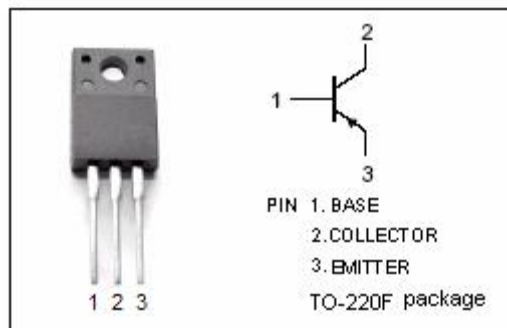
- High Collector-Emitter Breakdown Voltage
- Excellent switching time
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High voltage switching applications.
- High speed DC-DC converter application

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-400	V
V_{CEO}	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-1	A
I_B	Base Current-Continuous	-0.5	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	-55~150	$^{\circ}\text{C}$



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA ; I _B = 0	-400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -300mA; I _B = -30mA			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -300mA; I _B = -30mA			-1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -400V ; I _E =0			-1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C =0			-1.0	μ A
h _{FE}	DC Current Gain	I _C = -300mA; V _{CE} = -5V	30		100	

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