

isc Silicon NPN Power Transistor
2SD1587
DESCRIPTION

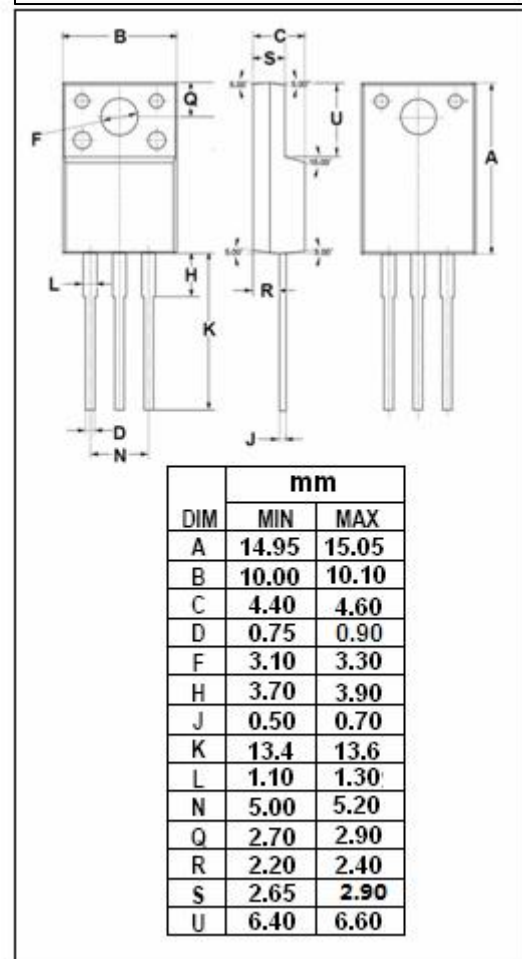
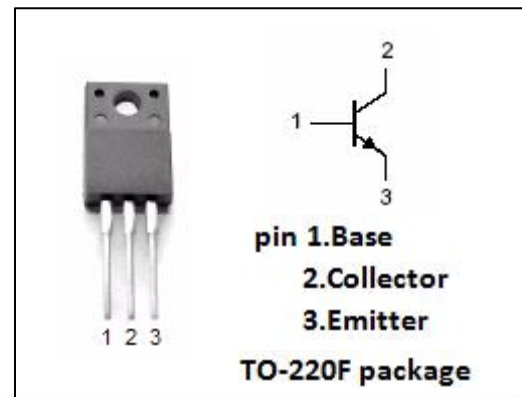
- High Collector Current:: $I_C = 2.0A$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = 1.0V(\text{Max}) @ I_C = 500mA$
- Complement to Type 2SB1096
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power supplies or a variety of drives in audio and other equipment.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current-Continuous	2.0	A
I_{CM}	Collector Current-Peak	3.0	A
I_B	Base Current-Continuous	1.0	A
P_C	Total Power Dissipation @ $T_C = 25^\circ C$	25	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA; I _B = 50mA		1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 150V; I _E = 0		50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4.0V; I _C = 0		50	μ A
h _{FE}	DC Current Gain	I _C = 0.4A; V _{CE} = 10V	40	200	

◆ h_{FE} Classifications

M	L	K
40-80	60-120	100-200

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