

isc Silicon PNP Power Transistor

2SB827

DESCRIPTION

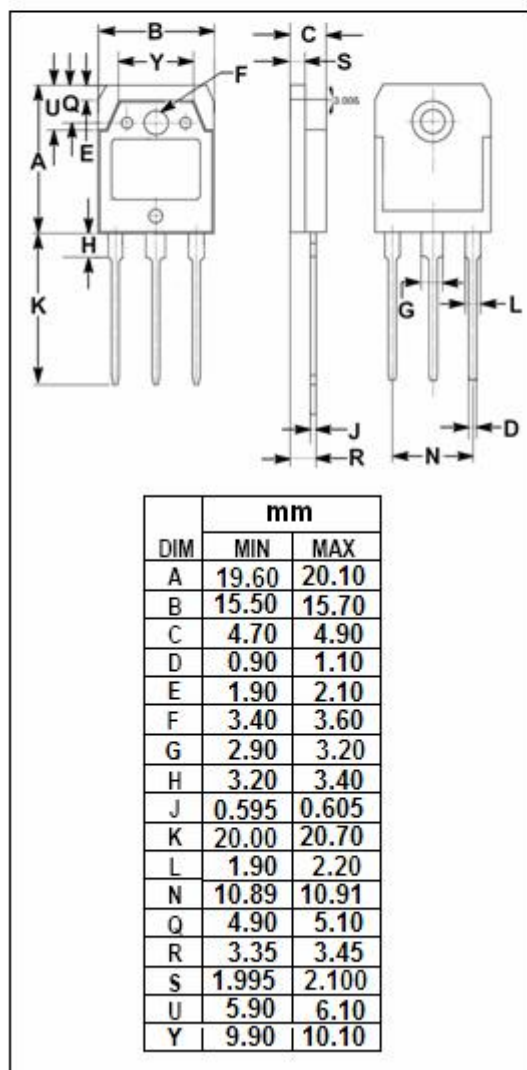
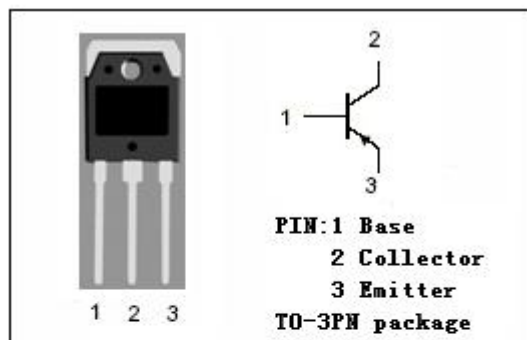
- High Collector Current: $I_C = -7A$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.4V(Max)@I_C = -4A$
- Wide Area of Safe Operation
- Complement to Type 2SD1063
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Universal high current switching as solenoid driving, high speed inverter and converter.

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

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	-7	A
I_{CM}	Collector Current-Peak	-14	A
P_C	Total Power Dissipation @ $T_C=25^{\circ}C$	60	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$



isc Silicon PNP Power Transistor**2SB827****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA ; R _{BE} = ∞	-50			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA ; I _E = 0	-60			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA ; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-0.4	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V ; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -2V	70		280	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -2V	30			

◆ h_{FE-1} Classifications

Q	R	S
70-140	100-200	140-280

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