

## isc Silicon PNP Power Transistor

## 2SB827

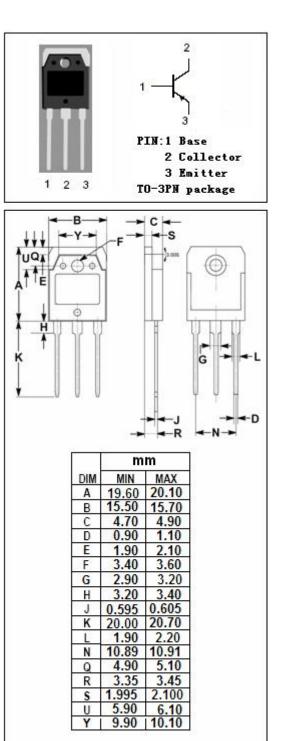
### DESCRIPTION

- High Collector Current:: I<sub>C</sub>= -7A
- Low Collector Saturation Voltage
  : V<sub>CE(sat)</sub>= -0.4V(Max)@I<sub>C</sub>= -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(Ta=25℃)						
SYMBOL	PARAMETER	VALUE	UNIT			
Vсво	Collector-Base Voltage	-60	V			
V <sub>CEO</sub>	Collector-Emitter Voltage -50		V			
V <sub>EBO</sub>	Emitter-Base Voltage		V			
lc	Collector Current-Continuous	-7	А			
I <sub>CM</sub>	Collector Current-Peak	-14	А			
Pc	Total Power Dissipation @ T <sub>C</sub> =25°C	60	w			
TJ	Junction Temperature	150	°C			
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C			



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## ELECTRICAL CHARACTERISTICS

### $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	Ic= -1mA ; R <sub>BE</sub> = ∞	-50			V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -1mA ; I <sub>E</sub> = 0	-60			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -1mA ; I <sub>C</sub> = 0	-6			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -4A; I <sub>B</sub> = -0.4A			-0.4	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -40V ; I <sub>E</sub> = 0			-0.1	mA
І <sub>ЕВО</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -4V; I <sub>C</sub> = 0			-0.1	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A; V <sub>CE</sub> = -2V	70		280	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -5A; V <sub>CE</sub> = -2V	30			

### h<sub>FE-1</sub> Classifications

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

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