

isc Silicon PNP Power Transistor
2SB1477
DESCRIPTION

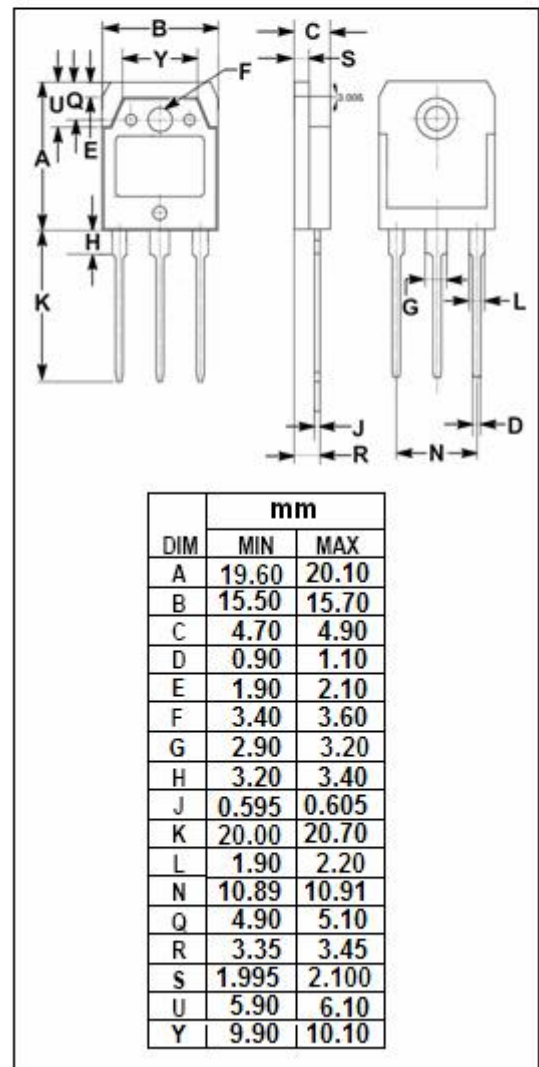
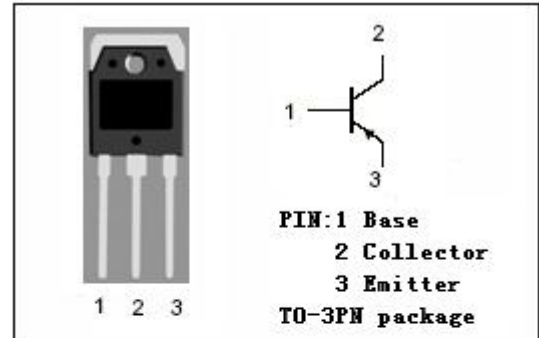
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100V(\text{Min.})$
- Wide Area of Safe Operation
- Complement to Type 2SD2236
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for driver and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-5	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	60	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS

 $T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Beakdown Voltage	$I_C = -10\text{mA}; I_B = 0$	100			V
$V_{(BR)CBO}$	Collector-Base Beakdown Voltage	$I_C = -50\ \mu\text{A}; I_E = 0$	100			V
$V_{(BR)EBO}$	Emitter-Base Beakdown Voltage	$I_E = -50\ \mu\text{A}; I_C = 0$	5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -3\text{A}; I_B = -0.3\text{A}$			-1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -3\text{A}; I_B = -0.3\text{A}$			-2.0	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -100\text{V}; I_E = 0$			-10	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}; I_C = 0$			-10	μA
h_{FE}	DC Current Gain	$I_C = -1\text{A}; V_{CE} = -5\text{V}$	60		320	

◆ h_{FE} Classifications

D	E	F
60-120	100-200	160-320

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