

isc Silicon PNP Darlington Power Transistor

2SB1227

DESCRIPTION

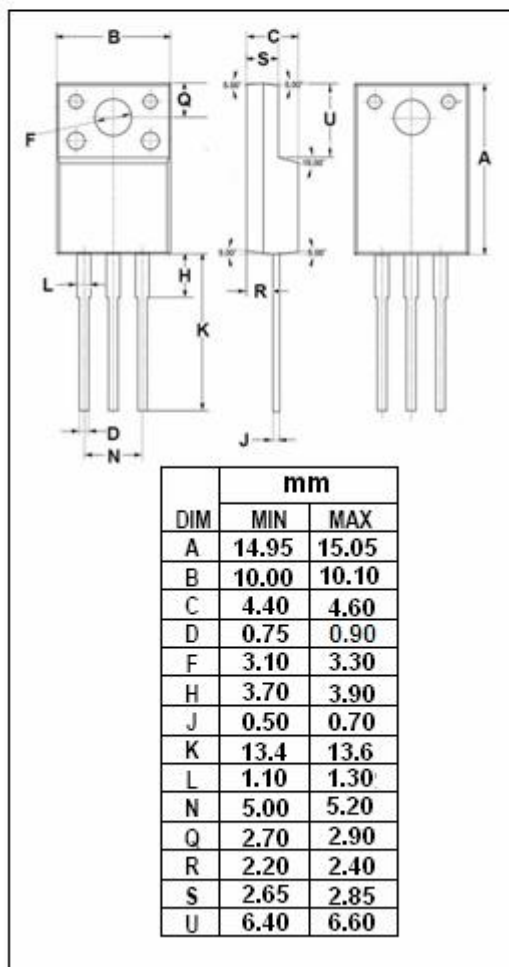
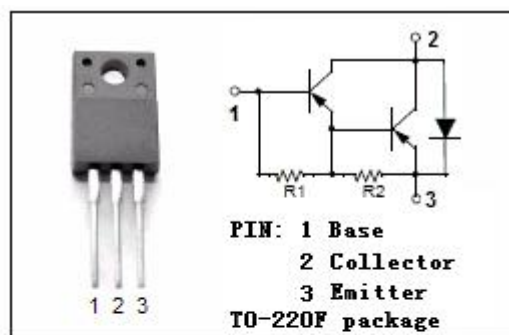
- High DC Current Gain-
: $h_{FE} = 1500(\text{Min})@ (V_{CE} = -3V, I_C = -2.5A)$
- Large Current Capability and Wide ASO.
- Complement to Type 2SD1829
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in control of motor drivers, printer hammer drivers, and constant-voltage regulators.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-110	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-5	A
I_{CM}	Collector Current-Peak	-8	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	$^\circ\text{C}$



isc Silicon PNP Darlington Power Transistor**2SB1227****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 = -50mA; R _{BE} = ∞	-100			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -5mA; I _E = 0	-110			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2.5A; I _B = -5mA			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -2.5A; I _B = -5mA			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3.0	mA
h _{FE}	DC Current Gain	I _C = -2.5A; V _{CE} = -3V	1500			
f _T	Current-Gain—Bandwidth Product	I _C = -2.5A; V _{CE} = -5V		20		MHz

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