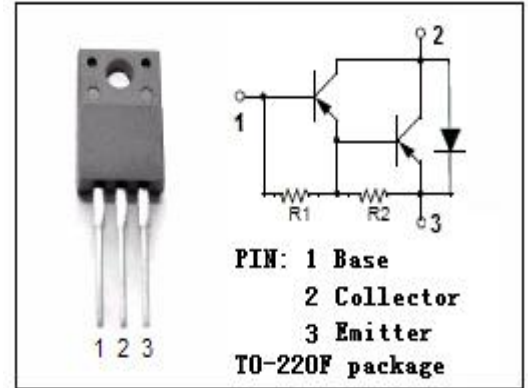


isc Silicon PNP Darlington Power Transistor
2SB1481
DESCRIPTION

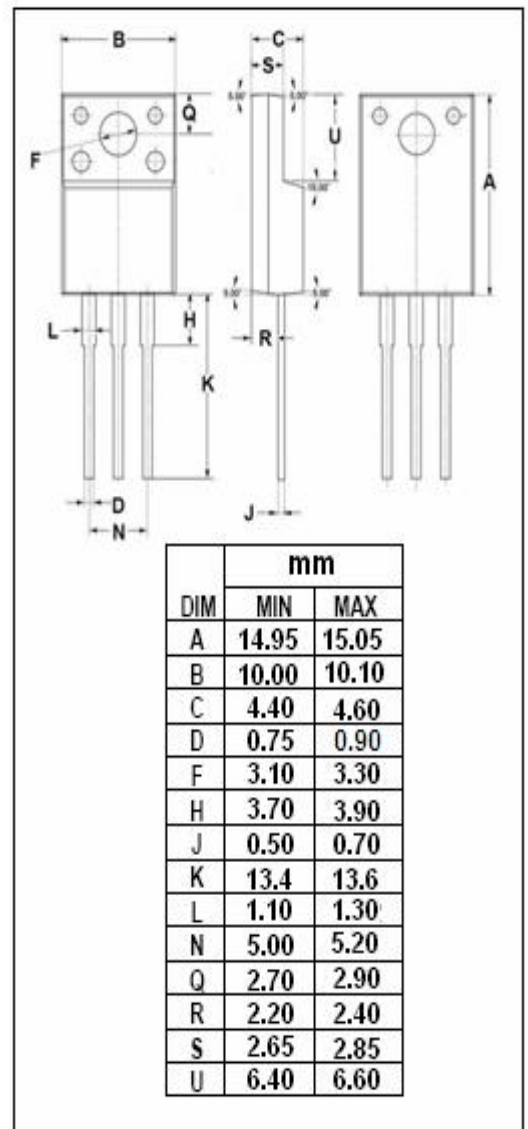
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100V(\text{Min})$
- High DC Current Gain-
: $h_{FE} = 2000(\text{Min})@ (V_{CE} = -2V, I_C = -1.5A)$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.5V(\text{Max})@ (I_C = -3A)$
- Complement to Type 2SD2241
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- High power switching applications.
- Hammer drive, pulse motor drive 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	-4	A
I_{CM}	Collector Current-Pulse	-6	A
I_B	Base Current-Continuous	-0.3	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**2SB1481****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 = -10mA; I _B = 0	-100			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -6mA			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -6mA			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-2.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3.0	mA
h _{FE-1}	DC Current Gain	I _C = -1.5A; V _{CE} = -2V	2000			
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -2V	1000			

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