

isc Silicon NPN Darlington Power Transistor

BU180

DESCRIPTION

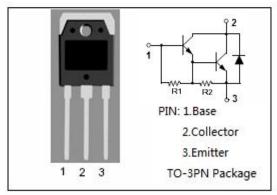
- Collector Current -I_C= 10A
- DC Current Gain-
 - : h_{FE}= 200(Min)@ I_C= 5A
- Low Collector Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

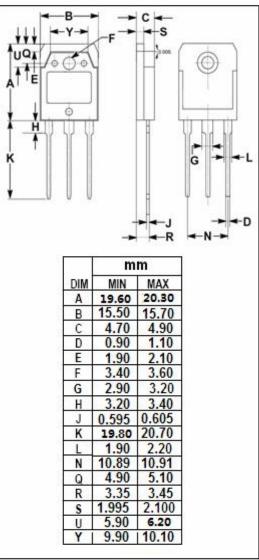
APPLICATIONS

- Designed for line operated switchmode applications such as:
- · Switching regulators
- Inverters
- · Solenoid and relay drivers

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	320	V	
V _{CEO}	Collector-Emitter Voltage 200		V	
V _{EBO}	Emitter-Base Voltage	8	V	
lc	Collector Current-Continuous 10		Α	
P _C	Collector Power Dissipation @ T _C =25°C	50	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	Temperature Range -55~150		







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ;I _B =0	200			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 20mA			1.5	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 20mA			2.0	V		
I _{CEO}	Collector Cutoff Current	V _{CE} = 200V; I _B = 0			1.0	mA		
I _{CBO}	Collector Cutoff Current	V _{CB} = 320V;I _E = 0			1.0	mA		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C =0			10	mA		
h _{FE}	DC Current Gain	I _C = 5A; V _{CE} = 5V	200					

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