

isc Silicon NPN Darlington Power Transistor

BU826

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 375V(Min)
- · High Switching Speed
- 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

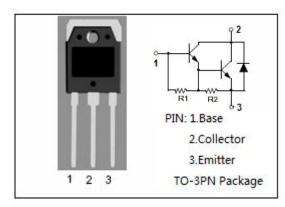


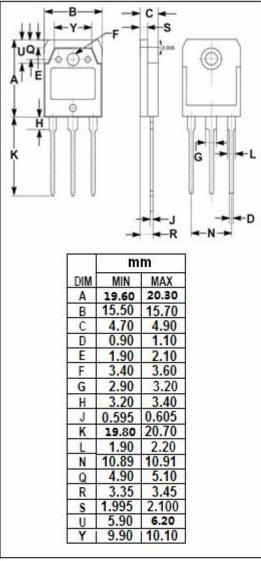
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Emitter Voltage(V _{BE} = 0)	800	V
V _{CEO}	Collector-Emitter Voltage	375	V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	6	Α
I _{CM}	Collector Current-Peak	8	Α
l _Β	Base Current	0.5	Α
Pc	Collector Power Dissipation @ Tc=25°C	125	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W







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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	375			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 55mA			2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.2A			2.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 55mA			2.2	V
I _{CES}	Collector Cutoff Current	V_{CE} = Rated V_{CES} ; R_{BE} = 0 V_{CE} = Rated V_{CES} ; R_{BE} = 0, T_{C} = 125°C			1.0 2.0	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			150	mA

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