

isc Silicon NPN Power Transistor

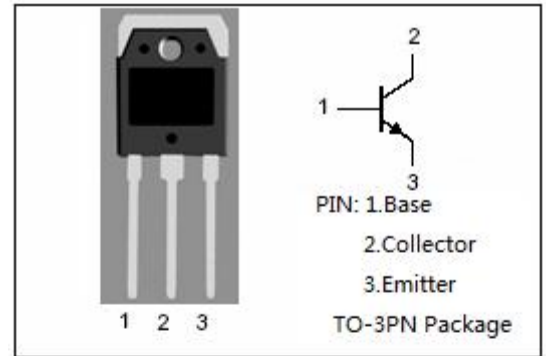
BU426A

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 400V(\text{Min})$
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

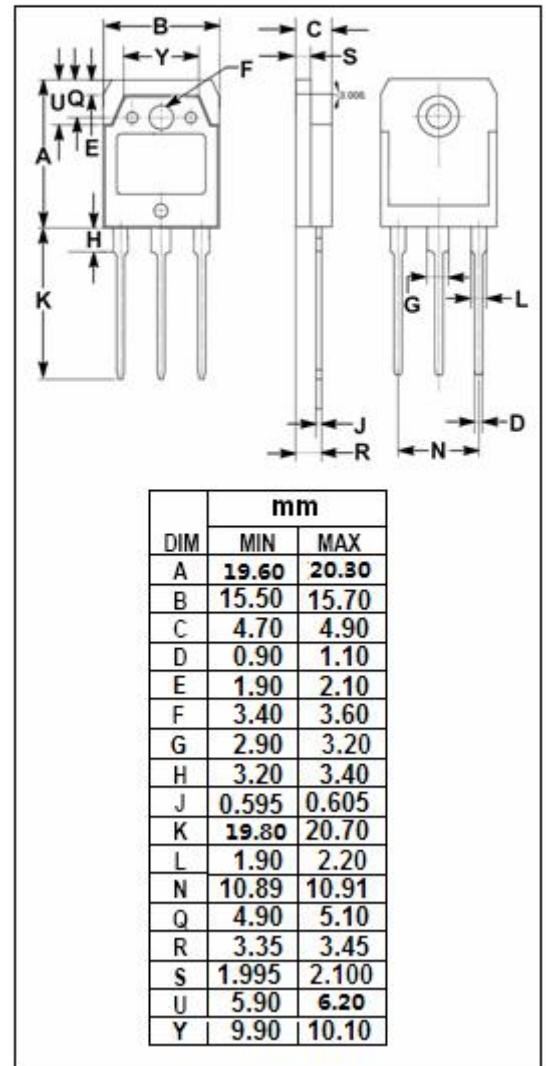
APPLICATIONS

- Designed for switch-mode CTV supply systems applications.



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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	800	V
V_{CES}	Collector-Emitter Voltage $V_{BE}=0$	800	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	10	V
I_C	Collector Current-Continuous	6	A
I_{CM}	Collector Current-Peak	10	A
I_B	Base Current-Continuous	2	A
I_{BM}	Base Current-Peak	3	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	70	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.1	$^\circ\text{C/W}$

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ELECTRICAL CHARACTERISTICS
T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	400			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 1.25A			3.0	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.4	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 1.25A			1.6	V
I _{CES}	Collector Cutoff Current	V _{CE} = 900V; V _{BE} = 0 V _{CE} = 900V; V _{BE} = 0; T _J =125°C			1.0 2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 10V; I _C =0			10	mA
h _{FE}	DC Current Gain	I _C = 0.6A ; V _{CE} = 5V	15		60	

Switching Times

t _{on}	Turn-On Time	I _C = 2.5A; I _{B1} = 0.5A; I _{B2} = -1A; V _{CC} = 250V			0.6	μs
t _{stg}	Storage Time				3.5	μs
t _f	Fall Time			0.15		μs

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