



Description:

BU426A type is a fast switching high voltage transistor, more specially intended for operating in colour TV supply systems.

Features:

- Collector-Emitter Sustaining Voltage
- V_{CEO(sus)} = 400V (Min.) BU426A Low Collector-Emitter saturation voltage $V_{CE(sat)}$ = 1.5V (Max.) at I_C = 2.5A, IB = 0.5A High Voltage Power Transistor

Maximum Ratings

Characteristic	Symbol	Rating	Unit	
Collector-Emitter Voltage	V _{CEO}	400		
Collector-Base Voltage	V _{CBO}	900	V	
Emitter-Base Voltage	V _{EBO}	10		
Collector Current-Continuous -Peak	I _C	6 8	А	
Base Current-Continuous	I _B	3		
Total Power Dissipation at T _C = 25°C Derate above 25°C	P _D	113 0.904	W W/°C	
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150	°C	

Thermal Characteristics

Characteristic	Symbol	Max.	Unit
Thermal Resistance Junction to Case	Rθjc	1.106	°C/W





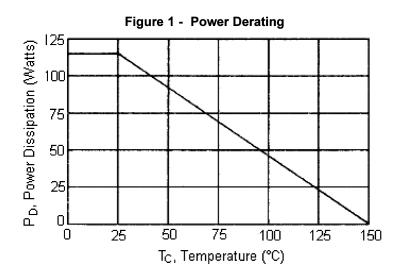
Electrical Characteristics (T_C = 25°C unless otherwise noted)

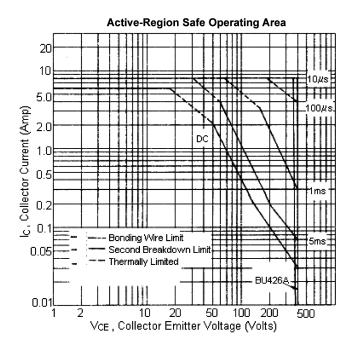
Characteristic		Symbol	Min.	Max.	Unit
OFF Characteristics					
Collector-Emitter Sustaining Voltage (1) $I_C = 100$ mA, $I_B = 0$		V _{CEO(SUS)}	400	-	V
Collector Cut off Current V _{CE} = 900V, V _{BE} = 0		I _{CES}	-	1	- mA
Emitter Cut off Current $V_{EB} = 10V$, $I_{C} = 0$		I _{EBO}	-	10	
ON Characteristics (1)					
DC Current Gain I _C = 0.6A, V _{CE} = 5V		h _{FE}	8	-	-
Collector-Emitter Saturation Voltage $I_C = 2.5A$, $I_B = 0.5A$ $I_C = 4A$, $I_B = 1.25A$		V _{CE(sat)}	-	1.5 3	V
Base-Emitter On Voltage $I_C = 2.5A$, $I_B = 0.5A$ $I_C = 4A$, $I_B = 1.25A$		V _{BE(sat)}	-	1.4 1.6	V
Dynamic Characteristics			,		
Current Gain Bandwidth Product $I_C = 0.2A$, $V_{CE} = 10V$, $f = 1MHz$		f _T	4	-	MHz
Switching Characteristics					
Turn On Time		t _{on}	-	0.5	
Storage Time	$V_{CC} = 250V, I_{C} = 2.5A$ $I_{B1} = 0.5A, I_{B2} = -1A$	t _s	-	3.5	μs
Fall Time		t _f	-	0.75	

(1) Pulse Test : Pulse Width ≤300µs, Duty Cycle ≤2%







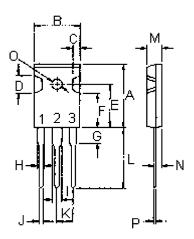


There are two limitations on the power handling ability of a transistor: average junction temperature and second breakdown safe operating area curves indicate $\rm I_C\text{-}V_{CE}$ limits of the transistor that must be observed for reliable operation i.e., the transistor must not be subjected to greater dissipation than the curves indicate.

The data of SOA curve is based on $T_{J(PK)}$ = 150°C; T_C is variable depending on conditions. Second breakdown pulse limits are valid for duty cycles to 10% provided $T_{J(PK)} \le 150$ °C. At high case temperatures, thermal limitation will reduce the power that can be handled to values less than the limitations imposed by second breakdown.







Pin Configuration:

- 1. Base
- 2. Collector
- 3. Emitter

Dimensions	Min.	Max.
А	20.63	22.38
В	15.38	16.2
С	1.9	2.7
D	5.1	6.1
E	14.81	15.22
F	11.72	12.84
G	4.2	4.5
Н	1.82	2.46
I	2.92	3.23
J	0.89	1.53
K	5.26	5.66
L	18.5	21.5
М	4.68	5.36
N	2.4	2.8
0	3.25	3.65
Р	0.55	0.7

Dimensions: Millimetres

Part Number Table

Description	Part Number		
Transistor, NPN, TO-247	BU426A		

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