

BU326A

HIGH VOLTAGE NPN SILICON POWER TRANSISTOR

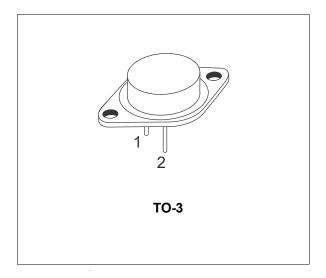
- STMicroelectronics PREFERRED SALESTYPE
- NPN TRANSISTOR
- FAST SWITCHING SPEED

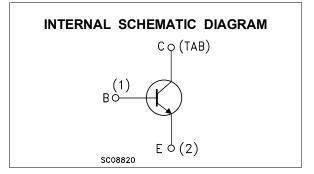
APPLICATIONS:

- POWER SUPPLIES
- LINEAR AND SWITCHING INDUSTRIAL EQUIPMENT

DESCRIPTION

The BU326A is a silicon multiepitaxial mesa NPN transistor in Jedec TO-3 metal case particularly intended for switch-mode CTV supply system.





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CES}	Collector-Emitter Voltage (V _{BE} = 0)	900	V
V _{CEO}	Collector-Emitter Voltage ($I_B = 0$)	400	V
V _{EBO}	Emitter-Base Voltage (I _C = 0)	10	V
lc	Collector Current	6	А
Ісм	Collector Peak Current	8	A
Ι _Β	Base Current	3	A
P _{tot}	Total Power Dissipation at $T_{case} \le 25 \ ^{\circ}C$	75	W
T _{stg}	Storage Temperature	-65 to 200	°C
Tj	Max. Operating Junction Temperature	200	°C

THERMAL DATA

R _{thj-case} Thermal Resistance Junction	ase Max	2.33	°C/W	Ì
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ELECTRICAL CHARACTERISTICS (T_{case} = 25 $^{\circ}$ C unless otherwise specified)

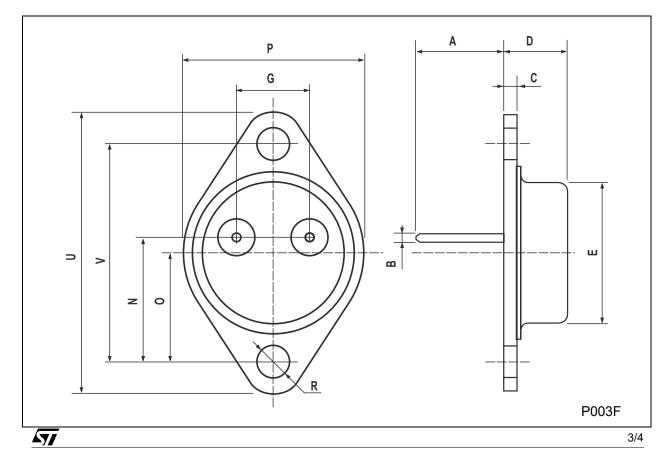
Symbol	Parameter	Test Conditions		Parameter Test Conditions Mir		Min.	. Тур.	Max.	Unit
I _{CES}	Collector Cut-off Current (V _{BE} = 0)	V _{CE} = 900 V V _{CE} = 900 V	T _c = 125 °C			1 2	mA mA		
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = 10 V				10	mA		
$V_{CEO(sus)}^{*}$	Collector-Emitter Sustaining Voltage(I _B = 0)	I _C = 100 mA		400			V		
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	I _C = 2.5 A I _C = 4 A	I _B = 0.5 A I _B = 1.25 A			1.5 3	V V		
V _{BE(sat)} *	Base-Emitter Saturation Voltage	I _C = 2.5 A I _C = 4 A	I _B = 0.5 A I _B = 1.25 A			1.4 1.6	V		
h _{FE} *	DC Current Gain	I _C = 1 A	V _{CE} = 5 V		25				
t _{on}	Turn-on Time	I _C = 2.5 A V _{CC} = 250 V	I _{B1} = 0.5 A			0.5	μs		
ts	Storage Time	-	I _{B1} = 0.5 A V _{CC} = 250 V			3.5	μs		
t _f	Fall Time	I _{B2} = -1A A	I _{B1} = 0.5 A V _{CC} = 250 V			0.5	μs		

* Pulsed: Pulse duration = 300 $\mu s,$ duty cycle 1.5 %

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TO-3 MECHANICAL DATA

DIM.	mm			inch			
Dim	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
А	11.00		13.10	0.433		0.516	
В	0.97		1.15	0.038		0.045	
С	1.50		1.65	0.059		0.065	
D	8.32		8.92	0.327		0.351	
E	19.00		20.00	0.748		0.787	
G	10.70		11.10	0.421		0.437	
N	16.50		17.20	0.649		0.677	
Р	25.00		26.00	0.984		1.023	
R	4.00		4.09	0.157		0.161	
U	38.50		39.30	1.515		1.547	
V	30.00		30.30	1.187		1.193	



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