

BUY69A

HIGH VOLTAGE NPN SILICON TRANSISTOR

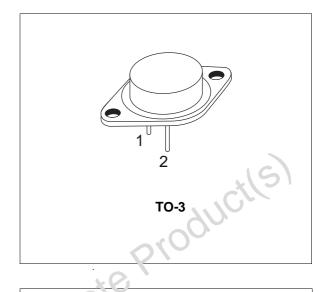
- STM PREFERRED SALESTYPE
- NPN TRANSISTOR
- HIGH VOLTAGE CAPABILITY
- HIGH CURRENT CAPABILITY
- FAST SWITCHING SPEED
- HIGH POWER TO-3 PACKAGE

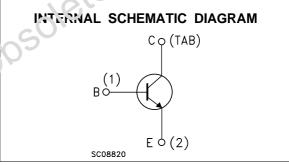
APPLICATIONS:

- HORIZONTAL DEFLECTION FOR COLOUR TV
- SWITCHING REGULATORS

DESCRIPTION

The BUY69A is a silicon Multi-Epitaxial mesa NPN transistor in Jedec TO-3 metal case. It is intended for horizontal deflection output stage of CTV receivers and high voltage, fast switching and industrial applications.





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit	
/ _{CES}	Collector-Emitter Voltage (V _{BE} = 0)	1000	V	
VCEO	Collector-Emitter Voltage $(I_B = 0)$	400	V	
V _{EBO}	Emitter-Base Voltage $(I_C = 0)$	8	V	
lc	Collector Current	10		
I _{CM}	Collector Peak Current (tp \leq 10 ms)	15	А	
IB	Base Current	3	А	
Ptot	Total Dissipation at $T_c \le 25 \ ^{\circ}C$	100	W	
T _{stg}	Storage Temperature	-65 to 200	°C	
Tj	Max. Operating Junction Temperature	200	°C	

THERMAL DATA

R _{thj-case} Thermal Resistance Junction-case	Max	1.75	°C/W
--	-----	------	------

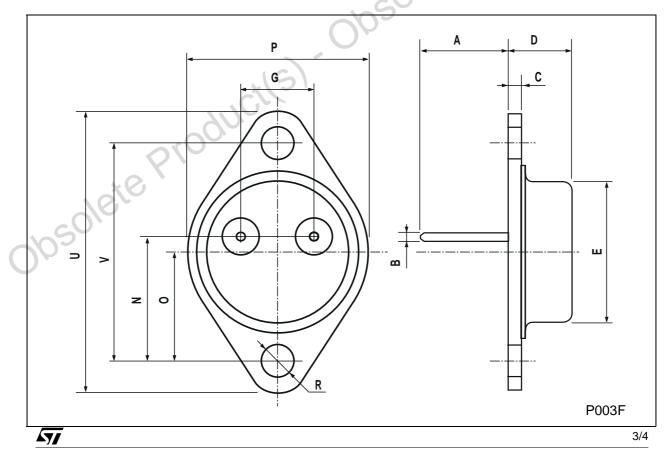
ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

1 1 3.3 2.2 10	3.3
3.3	3.3
2.2	
2.2	
	2.2
10	C'
10	(CV)
,00	
0.2	
1.7	
0.3	0.3
1	1

57

TO-3 MECHANICAL DATA

DIM.	mm		inch			
	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
Ν	16.50		17.20	0.649		0.677
Р	25.00		26.00	0.984	401	1.023
R	4.00		4.09	0.157	0100	0.161
U	38.50		39.30	1.515		1.547
V	30.00		30.30	1.187		1.193



Information furnished is believed to be accurate and reliable. However, STMicroelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of STMicroelectronics. Specification miled. STMicroelectronics are written approval of STMicroelectronics. The ST logo is a trademark of STMicroelectronics.

All other names are the property of their respective owners.

© 2003 STMicroelectronics – All Rights reserved

STMicroelectronics GROUP OF COMPANIES

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan -Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States.

http://www.st.com

4/4

