

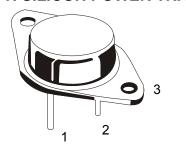
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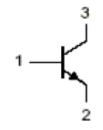
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NPN SILICON POWER TRANSISTOR





PIN

- 1. BASE
- 2. BMITTER
- 3. COLLECTOR (CASE)

BUY69A

TO-3 Metal Can Package

Description:

- 1. High Voltage Capability
- 2. High Current Capability

Applications:

Horizontal Deflection for Colour TV Switching Regulators

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

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Emitter Voltage (V _{BE} =0)	V_{CES}	1000	V
Collector Emitter (I _B =0)	V_{CEO}	400	V
Emitter Base Voltage (I _C =0)	V_{EBO}	8	V
Collector Current Continuous	I _C	10	Α
Collector Peak Current (tp ≤ 10ms)	I _{CM}	15	Α
Base Current	I _B	3	Α
Total Power Dissipation @ T _c ≤ 25°C	P_{D}	100	W
Junction Temperature	T _j	200	°C
Storage Temperature	T _{stg}	- 65 to +200	°C

THERMAL CHARACTERISTICS

DESCRIPTION	SYMBOL	MAX	UNITS
Thermal Resistance, Junction to Case	R _{th.J-C}	1.75	°C/W

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ELECTRICAL CHARACTERISTICS (T_C=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
Collector Emitter Breakdown Voltage	V_{CEO}	I _C =10mA	400		V
Collector Cut Off Current	I _{CES}	V _{CE} =1000V, V _{BE} =0		1	mA
Emitter Cut Off Current	I _{EBO}	V_{EB} =8 V , I_{C} =0		1	mA
Collector Emitter Saturation Voltage	*V _{CE(sat)}	I _C =8A, I _B =2.5A		3.3	V
Base Emitter Saturation Voltage	*V _{BE(sat)}	I _C =8A, I _B =2.5A		2.2	V
DC Current Gain	*h _{FE}	I _C =2.5A, V _{CE} =10V	15		
Transition Frequency	f _T	I _C =0.5A, V _{CE} =10V	Тур	. 10	MHz
Second Breakdown Collector Current	**I _{s/b}	V _{CE} =25V	4		Α

Notes.:

^{*} Pulse duration = 300µs, duty cycle 1.5%

^{** 1}s, non respective pulse



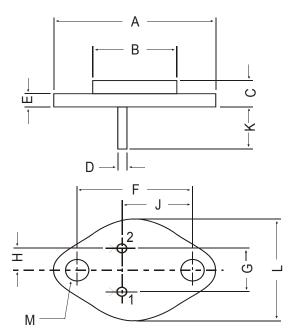
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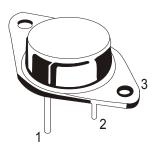


TO-3 Package Outline and Dimension

All dimensions in mm.



DIM	MIN.	MAX.
Α	_	39.37
В	_	22.22
С	6.35	8.50
D	0.96	1.09
Е	_	1.77
F	29.90	30.40
G	10.69	11.18
Н	5.20	5.72
J	16.64	17.15
K	11.15	12.25
L	_	26.67
M	3.84	4.19



PIN CONFIGURATION

- 1. BASE
- 2. EMITTER
- 3. COLLECTOR



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Customer Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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