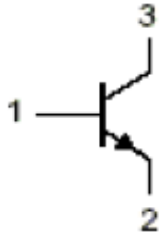
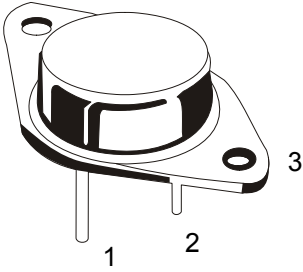


NPN SILICON POWER TRANSISTOR

BUY69A



PIN
1. BASE
2. EMITTER
3. COLLECTOR (CASE)

**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 ($T_A = 25^\circ\text{C}$)

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	A
Collector Peak Current ($t_p \leq 10\text{ms}$)	I_{CM}	15	A
Base Current	I_B	3	A
Total Power Dissipation @ $T_c \leq 25^\circ\text{C}$	P_D	100	W
Junction Temperature	T_j	200	$^\circ\text{C}$
Storage Temperature	T_{stg}	- 65 to +200	$^\circ\text{C}$

THERMAL CHARACTERISTICS

DESCRIPTION	SYMBOL	MAX	UNITS
Thermal Resistance, Junction to Case	R_{thJ-C}	1.75	$^\circ\text{C/W}$

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

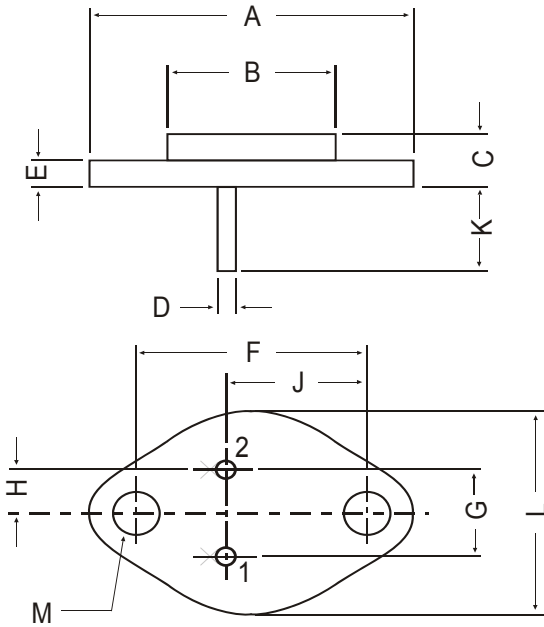
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
Collector Emitter Breakdown Voltage	V _{CEO}	I _C =10mA	400		V
Collector Cut Off Current	I _{CES}	V _{CE} =1000V, V _{BE} =0		1	mA
Emitter Cut Off Current	I _{EBO}	V _{EB} =8V, I _C =0		1	mA
Collector Emitter Saturation Voltage	*V _{CE(sat)}	I _C =8A, I _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	Typ. 10		MHz
Second Breakdown Collector Current	**I _{s/b}	V _{CE} =25V	4		A

Notes. :

* Pulse duration = 300μs, duty cycle 1.5%

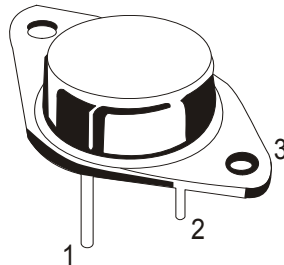
** 1s, non respective pulse

TO-3 Package Outline and Dimension



DIM	MIN.	MAX.
A	—	39.37
B	—	22.22
C	6.35	8.50
D	0.96	1.09
E	—	1.77
F	29.90	30.40
G	10.69	11.18
H	5.20	5.72
J	16.64	17.15
K	11.15	12.25
L	—	26.67
M	3.84	4.19

All dimensions in mm.



PIN CONFIGURATION

1. BASE
2. EMITTER
3. COLLECTOR



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Customer Notes

Disclaimer

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