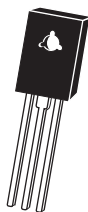## 2N6071, A, B
2N6073, A, B
2N6075, A, B

SENSITIVE GATE TRIAC
4.0 AMPS, 200 THRU 600 VOLTS

TO-126 CASE

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6071, A, B series types are silicon sensitive gate triacs designed for such applications as light dimmers, motor controls, heating controls and power supplies.

MARKING CODE: FULL PART NUMBER

MAXIMUM RATINGS: (T$_J$=25°C unless otherwise noted)

		2N6071 2N6071A 2N6071B	2N6073 2N6073A 2N6073B	2N6075 2N6075A 2N6075B	
	SYMBOL				UNITS
Peak Repetitive Off-State Voltage	V$_{DRM}$, V$_{RRM}$	200	400	600	V
RMS On-State Current (T$_C$=85°C)	I$_{T(RMS)}$		4.0		A
Peak One Cycle Surge (60Hz, T$_J$=110°C)	I$_{TSM}$		30		A
I^{2}t Value for Fusing (t=8.3ms)	I^{2}t		3.7		A^{2}s
Peak Gate Power (T$_C$=85°C)	P$_{GM}$		10		W
Average Gate Power (t=8.3ms, T$_C$=85°C)	P$_{G(AV)}$		0.5		W
Peak Gate Voltage (T$_C$=85°C)	V$_{GM}$		5.0		V
Storage Temperature	T$_{stg}$		-40 to +150		°C
Junction Temperature	T$_J$		-40 to +110		°C
Thermal Resistance	Θ$_{JC}$		3.5		°C/W
Thermal Resistance	Θ$_{JA}$		75		°C/W
Maximum Lead Temperature	T$_L$		260		°C

ELECTRICAL CHARACTERISTICS: (T$_C$=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	A Series TYP	MAX	B Series TYP	MAX	UNITS
I$_{DRM}$, I$_{RRM}$	V$_D$=Rated V$_{DRM}$, V$_{RRM}$, T$_J$=25°C		10		10		10	µA
I$_{DRM}$, I$_{RRM}$	V$_D$=Rated V$_{DRM}$, V$_{RRM}$, T$_J$=110°C		2.0		2.0		2.0	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD I, T$_J$=25°C		30		5.0		3.0	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD II, T$_J$=25°C		-		5.0		3.0	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD III, T$_J$=25°C		30		5.0		3.0	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD IV, T$_J$=25°C		-		10		5.0	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD I, T$_J$= -40°C		60		20		15	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD II, T$_J$= -40°C		-		20		15	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD III, T$_J$= -40°C		60		20		15	mA
I$_{GT}$	V$_D$=12V, R$_L$=100Ω, QUAD IV, T$_J$= -40°C		-		30		20	mA
I$_H$	V$_D$=12V, I$_T$=1.0A, T$_J$=25°C		30		15		15	mA
I$_H$	V$_D$=12V, I$_T$=1.0A, T$_J$= -40°C		70		30		30	mA
V$_{GT}$	V$_D$=12V, R$_L$=100Ω, T$_J$=25°C, QUAD I, II, III, IV		2.0		2.0		2.0	V
V$_{GT}$	V$_D$=12V, R$_L$=100Ω, T$_J$= -40°C, QUAD I, II, III, IV		2.5		2.5		2.5	V
V$_{TM}$	I$_{TM}$=6.0A		2.0		2.0		2.0	V
t$_{on}$	I$_{TM}$=14A, I$_{GT}$=100mA	1.5		1.5		1.5		µs
dv/dt	V$_D$= Rated V$_{DRM}$, I$_{TM}$=5.7A, T$_J$=85°C	5.0		5.0		5.0		V/µs

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Semiconductor Corp.

SENSITIVE GATE TRIAC
4.0 AMPS, 200 THRU 600 VOLTS

TO-126 CASE - MECHANICAL OUTLINE
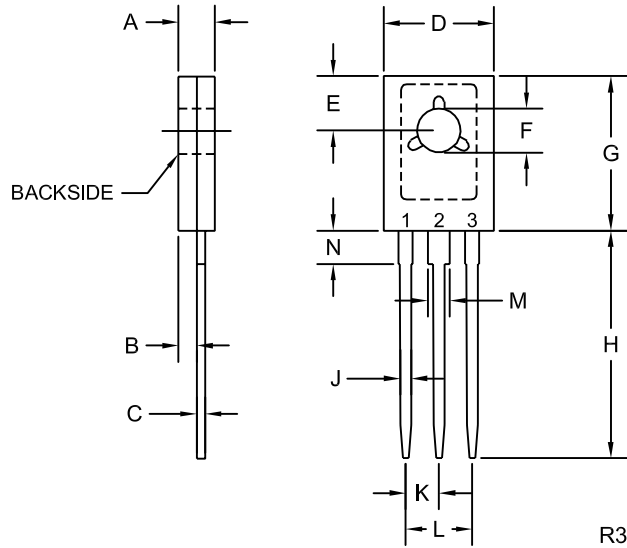
LEAD CODE:
1) MT1
2) MT2
3) GATE

MARKING CODE:
FULL PART NUMBER

	DIMENSIONS			
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.094	0.110	2.40	2.80
B	0.050		1.27	
C	0.015	0.030	0.38	0.75
D	0.291	0.335	7.40	8.50
E	0.148		3.75	
F	0.118	0.134	3.00	3.40
G	0.413	0.472	10.50	12.00
H	0.618		15.70	
J	0.024	0.035	0.62	0.90
K	0.089		2.25	
L	0.177		4.50	
M	0.045	0.055	1.14	1.40
N	0.083		2.10	

TO-126 (REV:R3)

R0 (27-April 2004)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES

Central
Semiconductor Corp. ™

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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