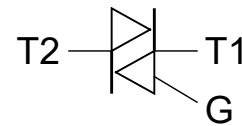
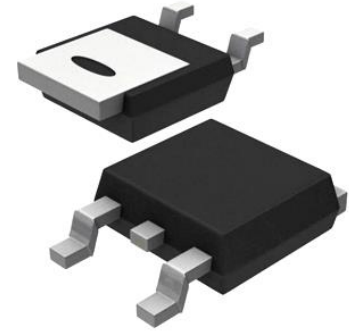


## isc Thyristors

### DESCRIPTION

- With TO-252( DPAK ) packaging
- Operating in 3 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



### APPLICATIONS

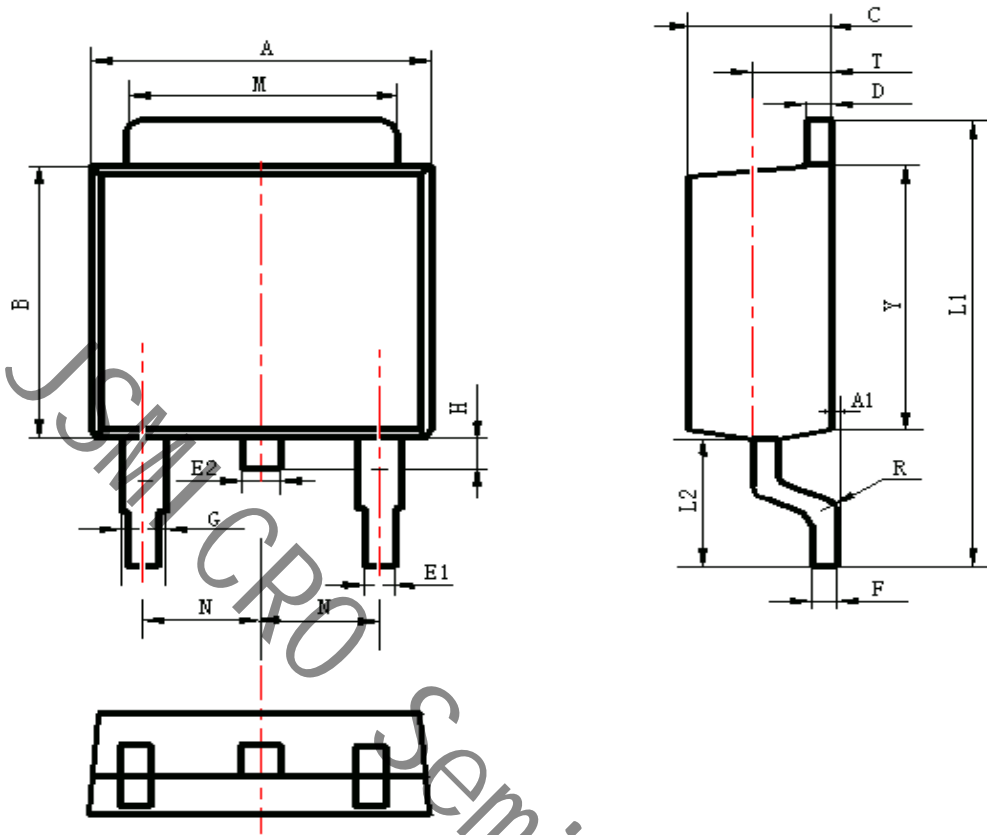
- Switching applications
- Phase control
- Motor control circuits
- Static switching on inductive or resistive load

### ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

SYMBOL	PARAMETER		MAX	UNIT
V <sub>DRM</sub>	Repetitive peak off-state voltage		800	V
V <sub>RPM</sub>	Repetitive peak reverse voltage		800	V
I <sub>T(RSM)</sub>	Average on-state current		8	A
I <sub>TSM</sub>	Surge non-repetitive on-state current	50HZ 60HZ	65 72	A
P <sub>G(AV)</sub>	Average gate power dissipation ( over any 20 ms period )		0.5	W
T <sub>j</sub>	Operating junction temperature		-40~125	°C
T <sub>stg</sub>	Storage temperature		-40~150	°C

### ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> Rated; V <sub>D</sub> =V <sub>DRM</sub> Rated;	T <sub>j</sub> =125°C		0.5	mA
I <sub>DRM</sub>	Repetitive peak off-state current					
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> =10A			1.65	V
I <sub>GT</sub>	Gate-trigger current	V <sub>D</sub> =12V; I <sub>T</sub> =0.1A;	I		50	mA
			II		50	
			III		50	
V <sub>GT</sub>	Gate-trigger voltage	V <sub>D</sub> =12V; I <sub>T</sub> =0.1A;			1.5	V
R <sub>th (j-mb)</sub>	Junction to mounting base	Half cycle			2.4	°C/W

**Package Outline: TO-252**


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	6.30	6.90	0.248	0.272
A1	0.00	0.16	0.000	0.006
B	5.70	6.30	0.224	0.248
C	2.10	2.50	0.083	0.098
D	0.30	0.70	0.012	0.028
E1	0.60	0.90	0.024	0.035
E2	0.70	1.00	0.028	0.039
F	0.30	0.60	0.012	0.024
G	0.70	1.20	0.028	0.047
L1	9.60	10.50	0.378	0.413
L2	2.70	3.10	0.106	0.122
H	0.40	1.00	0.016	0.039
M	5.10	5.50	0.201	0.217
N	2.09	2.49	0.082	0.098
R	0.30		0.012	
T	1.40	1.60	0.055	0.063
Y	5.10	6.30	0.201	0.248