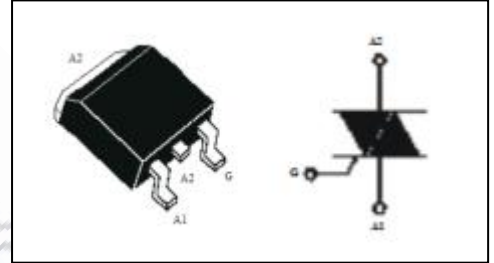


isc Thyristors

T1635-600G-TR

APPLICATIONS

- With TO-263 package.
- Be suitable for general purpose AC switching, they can be used as an ON/OFF function in applications.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



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

SYMBOL	PARAMETER	MIN	UNIT
V <sub>DRM</sub>	Repetitive peak off-state voltage	600	V
V <sub>RRM</sub>	Repetitive peak reverse voltage	600	V
I <sub>T(RMS)</sub>	RMS on-state current @T <sub>c</sub> =100°C	16	A
I <sub>TSM</sub>	Surge non-repetitive on-state current F=50HZ; t=20ms F=60HZ;16.7ms	160 168	A
P <sub>G(AV)</sub>	Average gate power dissipation @T <sub>j</sub> =125°C	1	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>RM</sub> =V <sub>RRM</sub>	T <sub>j</sub> =25°C	5	μA
			T <sub>j</sub> =125°C	2	mA
I <sub>DRM</sub>	Repetitive peak off-state current	V <sub>DM</sub> =V <sub>DRM</sub>	T <sub>j</sub> =25°C	5	μA
			T <sub>j</sub> =125°C	2	mA
V <sub>TM</sub>	On-state voltage	I <sub>TM</sub> = 22.5A; t <sub>p</sub> =380 μs		1.55	V
I <sub>GT</sub>	Gate-trigger current ( minimum IGT is guaranteed at 5% of IGT max ) Quadrant(I - II - III)	V <sub>D</sub> = 12 V;R <sub>L</sub> =30 Ω		35	mA
V <sub>GT</sub>	Gate-trigger voltage Quadrant (I - II - III)	V <sub>D</sub> = 12 V;R <sub>L</sub> =30 Ω		1.3	V
R <sub>th(j-c)</sub>	Thermal resistance	Junction to case		1.2	°C/W