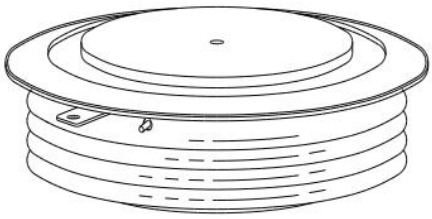
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Fast Switching SCR

FEATURES

- High frequency operation
- Low forward voltage drop
- Low switching losses at high frequency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- induction heating
- Motor control
- Choppers

ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage		600	V
V_{DRM}	Repetitive Peak Forward Blocking Voltage		600	V
$I_{T(AV)}$	Average Forward Current	Sinewave,180° conduction,Tc=65℃	200	A
$I_{T(RMS)}$	RMS on-state current		315	A
I_{TSM}	Peak, one-cycle, non-repetitive surge current	10.0 msec (50Hz), sinusoidal wave shape, 180° conduction, Tj = 125℃	4000	A
T_J	Junction Temperature		-40~125	℃
T_{stg}	Storage Temperature Range		-40~140	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case,Double sided cooled	0.055	℃/W

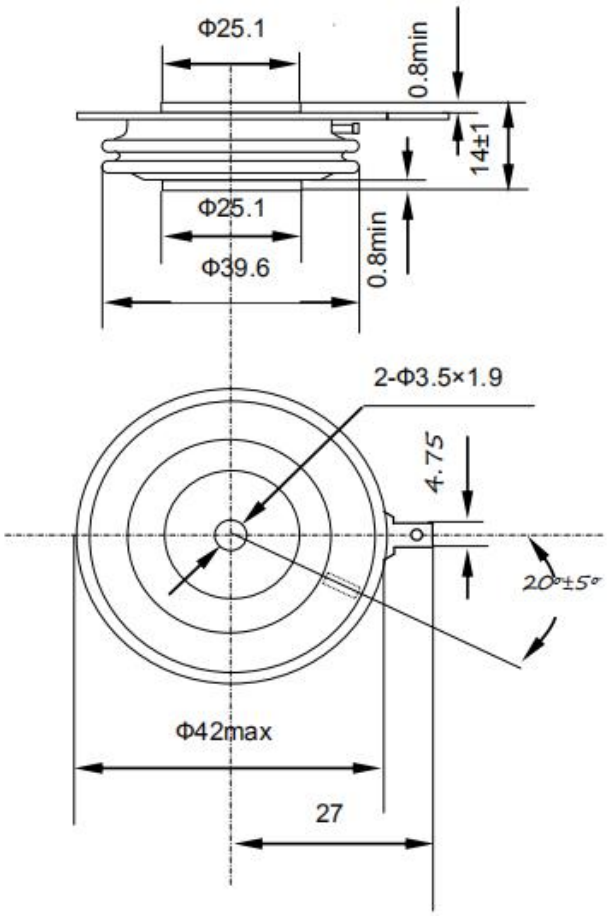
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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	TYPE	MAX	UNIT
V_{TM}	Forward Voltage Drop	I_{TM} = 1500 A		2.9	V
I_{DRM} I_{RRM}	peak reverse and off-state leakage current			25	mA
I_{GT}	DC gate current required to trigger	V_D=12V,T_J = 25 ℃		150	mA
V_{GT}	DC gate voltage required to trigger	V_D=12V,T_J = 25 ℃		3	V
t_q	Typical turn-off time	I_{TM} = 200A, T_J = 125 ℃, di/dt = 12.5A/μs, V_R = 50V, dV/dt = 20V/μs		20	μs

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394“)



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