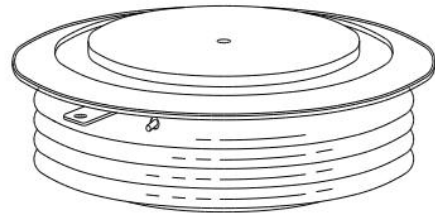


### FEATURES

- 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

A range of extremely compact, encapsulated three phase bridge rectifiers offering efficient and reliable operation. They are intended for use in general purpose and heavy duty applications.

### ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{RRM}$	Repetitive Peak Reverse Voltage		1400	V
$V_{DRM}$	Repetitive Peak Forward Blocking Voltage		1400	V
$I_{T(AV)}$	Average Forward Current	Sinewave, 180° conduction, $T_c=65^{\circ}\text{C}$	1800	A
$I_{T(RMS)}$	RMS on-state current		2800	A
$I_{TSM}$	Peak, one-cycle, non-repetitive surge current	10.0 ms (50Hz), sinusoidal wave shape, 180° conduction, $T_j = 125^{\circ}\text{C}$	40000	A
$T_j$	Junction Temperature		-40~125	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range		-40~150	$^{\circ}\text{C}$

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case, Double sided cooled	0.018	$^{\circ}\text{C}/\text{W}$

### ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	TYPE	MAX	UNIT
$V_{TM}$	Forward Voltage Drop	$I_{TM} = 3000\text{ A}, T_J = 25\text{ }^\circ\text{C}$		1.45	V
$I_{DRM}$ $I_{RRM}$	peak reverse and off-state leakage current			25	mA
$I_{GT}$	DC gate current required to trigger	$V_D = 12\text{ V}, R_L = 3\ \Omega, T_J = 25\text{ }^\circ\text{C}$		150	mA
$V_{GT}$	DC gate voltage required to trigger	$V_D = 12\text{ V}, R_L = 3\ \Omega, T_J = 25\text{ }^\circ\text{C}$		3	V
$t_q$	Typical turn-off time	$I_{TM} = 1000\text{ A}, di/dt = 25\text{ A}/\mu\text{s}, dV/dt = 30\text{ V}/\mu\text{s}, T_J = 125\text{ }^\circ\text{C}$ ,	125	250	$\mu\text{s}$

### PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")

