

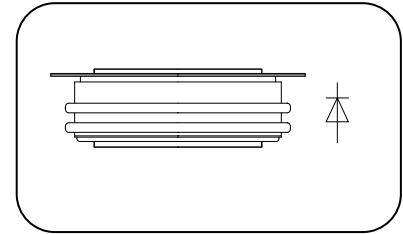
### Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

### Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$       **2175A**  
 $V_{RRM}$         **4000~5000V**  
 $t_{rr}$             **12.0 $\mu$ s**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	150			2811	A
						2175	
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms $V_{RSM} = V_{RRM} + 100V$	150	4000		5000	V
$I_{RRM}$	Repetitive peak current	$V_{RM} = V_{RRM}$	150			250	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			30	kA
$I^2t$	$I^2t$ for fusing coordination	$V_R = 0.6V_{RRM}$				4500	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			1.65	V
$r_F$	Forward slop resistance					0.25	m $\Omega$
$V_{FM}$	Peak on-state voltage	$I_{TM} = 3000A, F = 40kHz$	150			2.40	V
$I_{rm}$	Reverse recovery current	$I_{TM} = 2000A, tp = 1000\mu s,$ $-di/dt = 20A/\mu s,$ $V_R = 50V$	150		320		A
$t_{rr}$	Reverse recovery time				12		$\mu s$
$Q_{rr}$	Recovery charge				1900	2200	$\mu C$
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine' double side cooled Clamping force 40kN				0.010	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.003	
$F_m$	Mounting force			35		47	kN
$T_{stg}$	Stored temperature			-40		160	$^{\circ}C$
$W_t$	Weight				1100		g
Outline	ZT73cT						

### Outline:

