

### 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**  
 $t_{rr}$             **12.0μs**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T <sub>j</sub> (°C)	VALUE			UNIT
					Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Double side cooled,	T <sub>C</sub> =85°C	150			2175	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	tp=10ms		150	4000		5000	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>		150			240	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave		150			30	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>					4500	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage			150			1.65	V
r <sub>F</sub>	Forward slope resistance						0.25	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>TM</sub> =3000A, F=40kN		25			3.00	V
I <sub>rm</sub>	Reverse recovery current	I <sub>TM</sub> =2000A, tp=1000μs, -di/dt=20A/μs, V <sub>R</sub> =50V		150		320		A
t <sub>rr</sub>	Reverse recovery time					12		μs
Q <sub>rr</sub>	Recovery charge					1900	2200	μC
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN					0.010	°C /W
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.003		
F <sub>m</sub>	Mounting force				35		47	kN
T <sub>stg</sub>	Stored temperature				-40		160	°C
W <sub>t</sub>	Weight					1100		g
Outline	ZT73cT							

### Outline:

