

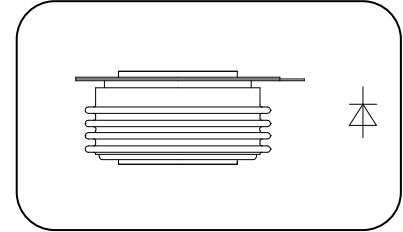
### Features

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

### Typical Applications

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

$I_{F(AV)}$       **2060A**  
 $V_{RRM}$         **1100~2000V**  
 $t_{rr}$             **7.0 $\mu$ s**



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,	150			2680	A
						2060	
V <sub>RRM</sub>	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	150	1100		2000	V
I <sub>RRM</sub>	Repetitive peak current	V <sub>RM</sub> = V <sub>RRM</sub>	150			100	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	150			25	kA
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				3125	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			1.16	V
r <sub>F</sub>	Forward slop resistance					0.16	mΩ
V <sub>FM</sub>	Peak on-state voltage	I <sub>TM</sub> =5000A, F=28kN	150			1.90	V
I <sub>rm</sub>	Reverse recovery current	I <sub>TM</sub> =2000A, tp=2000μs, -di/dt=60A/μs, V <sub>R</sub> =50V	150		128		A
t <sub>rr</sub>	Reverse recovery time				7		μs
Q <sub>rr</sub>	Recovery charge				450	550	μC
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 28kN				0.016	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.004	
F <sub>m</sub>	Mounting force			21		30	kN
T <sub>stg</sub>	Stored temperature			-40		160	°C
W <sub>t</sub>	Weight				640		g
Outline	ZT54cT60						

### Outline

