

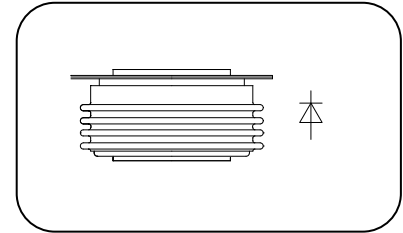
### Features

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

### Typical Applications

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

$I_{F(AV)}$       **1400 A**  
 $V_{RRM}$         **1100~2000V**  
 $t_{rr}$             **6.0 $\mu$ 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			1830	A
						1400	
						1200	
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			80	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	150			19	kA
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				1805	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			1.42	V
r <sub>F</sub>	Forward slop resistance					0.36	mΩ
V <sub>FM</sub>	Peak on-state voltage	I <sub>TM</sub> =3000A, F=24kN	150			2.50	V
I <sub>rm</sub>	Reverse recovery current	I <sub>TM</sub> =2000A, tp=1000 $\mu$ s, -di/dt=60A/ $\mu$ s, V <sub>R</sub> =50V	150		76		A
t <sub>rr</sub>	Reverse recovery time				6		$\mu$ s
Q <sub>rr</sub>	Recovery charge				228	250	$\mu$ C
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN				0.020	°C /W
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.005	
F <sub>m</sub>	Mounting force			19		26	kN
T <sub>stg</sub>	Stored temperature			-40		160	°C
W <sub>t</sub>	Weight				440		g
Outline	ZT50cT						

### Outline

