

### 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

$I_{F(AV)}$       **1208 A**  
 $V_{RRM}$         **2100~3000V**  
 $t_{rr}$             **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,	T <sub>C</sub> =85°C	150			1208	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	tp=10ms		150	2100		3000	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>		150			100	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave		150			16	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>						1280
V <sub>FO</sub>	Threshold voltage			150			1.62	V
r <sub>F</sub>	Forward slope resistance							0.36
V <sub>FM</sub>	Peak forward voltage	I <sub>TM</sub> =1500A, F=24kN		25			2.80	V
I <sub>rm</sub>	Reverse recovery current	I <sub>TM</sub> =2000A, tp=1000 $\mu$ s,		150		166		A
t <sub>rr</sub>	Reverse recovery time	-di/dt=60A/ $\mu$ s,				7		$\mu$ s
Q <sub>rr</sub>	Recovery charge	V <sub>R</sub> =50V				500	650	$\mu$ 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

