

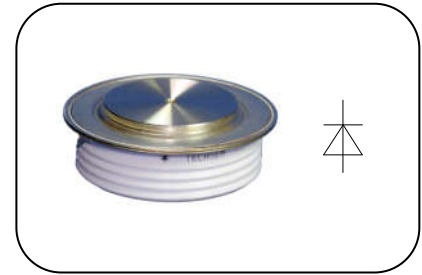
Features

- 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 μ s**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _j (°C)	VALUE			UNIT
					Min	Type	Max	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Double side cooled,	T _C =85°C	150			1400	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		150	1100		2000	V
I _{RRM}	Repetitive peak current	at V _{RRM}		150			100	mA
I _{FSM}	Surge forward current	10ms half sine wave		150			19	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					1805	A ² s*10 ³
V _{FO}	Threshold voltage			150			1.42	V
r _F	Forward slope resistance						0.36	mΩ
V _{FM}	Peak forward voltage	I _{TM} =3000A, F=24kN		25			2.80	V
I _{rm}	Reverse recovery current	I _{TM} =2000A, tp=1000 μ s,		150		76		A
t _{rr}	Reverse recovery time	-di/dt=60A/ μ s,				6		μ s
Q _{rr}	Recovery charge	V _R =50V				228	250	μ C
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN					0.020	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink						0.005	
F _m	Mounting force				19		26	kN
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					440		g
Outline	ZT50cT							

Outline

