

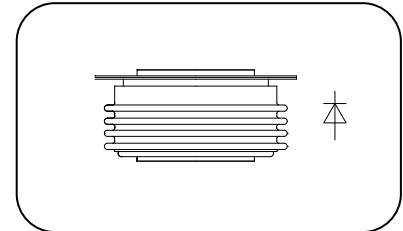
Features

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

Typical Applications

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

$I_{F(AV)}$ **538A**
 V_{RRM} **4000~5000V**
 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 =55°C	150			695	A
			T _C =85°C				538	
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	4000		5000	V	
I _{RRM}	Repetitive peak current	V _{RM} = V _{RRM}	150			50	mA	
I _{FSM}	Surge forward current	10ms half sine wave	150			7.5	kA	
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}					281	A ² s*10 ³
V _{FO}	Threshold voltage		150			1.89	V	
r _F	Forward slop resistance						1.18	mΩ
V _{FM}	Peak on-state voltage	I _{TM} =1000A, F=15kN	150			3.07	V	
I _{rm}	Reverse recovery current	I _{TM} =1000A, tp=1000 μ s, -di/dt=60A/ μ s, V _R =50V	150		240		A	
t _{rr}	Reverse recovery time				6		μ s	
Q _{rr}	Recovery charge				720	900	μ C	
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 15kN				0.035	°C /W	
R _{th(c-h)}	Thermal resistance case to heat sink					0.008		
F _m	Mounting force			10		20	kN	
T _{stg}	Stored temperature			-40		160	°C	
W _t	Weight				250		g	
Outline	ZT33cT							

Outline

