

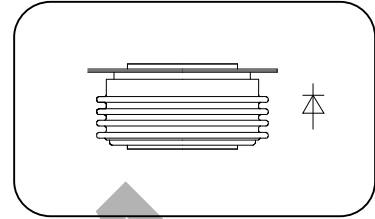
Features

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

Typical Applications

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

$I_{F(AV)}$ **1291A**
 V_{RRM} **200~1000V**
 t_{rr} **3.0 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 _{hs} =55°C	150			1291	A
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, T _{hs} =102°C	150			800	A
V_{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	200		1000	V
I_{RRM}	Repetitive peak current	V _{RM} = V _{RRM}	150			40	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			10	KA
I^2t	I ² T for fusing coordination	V _R =0.6V _{RRM}				500	A ² s*10 ³
V_{FO}	Threshold voltage		150			1.15	V
r_F	Forward slop resistance					0.34	m
V_{FM}	Peak on-state voltage	I _{TM} =2400A, F=15KN	25			2.8	V
I_{rm}	Reverse recovery current	I _{TM} =800A, tp=1000 μ s, -di/dt=20A/ μ s,	100			51	A
t_{rr}	Reverse recovery time	V _R =50V				3	μ s
Q_{rr}	Recovery charge					77	90
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine double side cooled Clamping force15KN				0.033	°C /W
F_m	Mounting force			10		20	KN
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight					270	g
Outline	ZT33cT						

Outline

