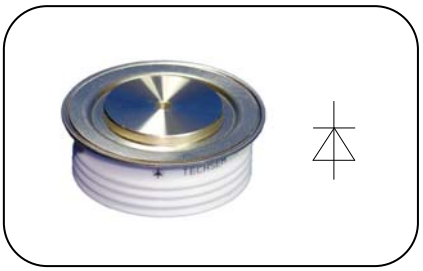


Features

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

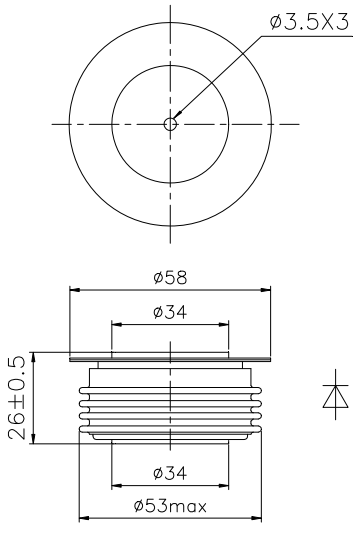
Typical Applications

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

Part No. Y38ZKG-ZT33cT		
$I_{F(AV)}$	**538A**	
V_{RRM}	**4000V**	**4200V**
	4500V	**5000V**

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				538	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		150	4000		5000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			50	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		150			7.5	kA
I^2t	I^2t for fusing coordination						281	A^2s*10^3
V_{FO}	Threshold voltage			150			1.89	V
r_F	Forward slope resistance						1.18	mΩ
V_{FM}	Peak forward voltage	I_{TM}=1000A, F=15kN		25			3.80	V
I_{rm}	Reverse recovery current	I_{TM}=1000A, tp=4000μs, di/dt=-60A/μs, V_R=100V		150		240		A
t_{rr}	Reverse recovery time					10		μs
Q_{rr}	Recovery charge					720	900	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine double side cooled Clamping force15kN					0.035	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.008	
F_m	Mounting force				10		20	kN
T_{vj}	Junction temperature				-40		150	°C
T_{stg}	Stored temperature				-40		160	°C
W_t	Weight					250		g
Outline	ZT33cT							

Outline:



TECHSEM reserves the right to change specifications without notice.