

**TOSHIBA****500HXD28**

TOSHIBA ALLOY-FREE RECTIFIER

**500HXD28**

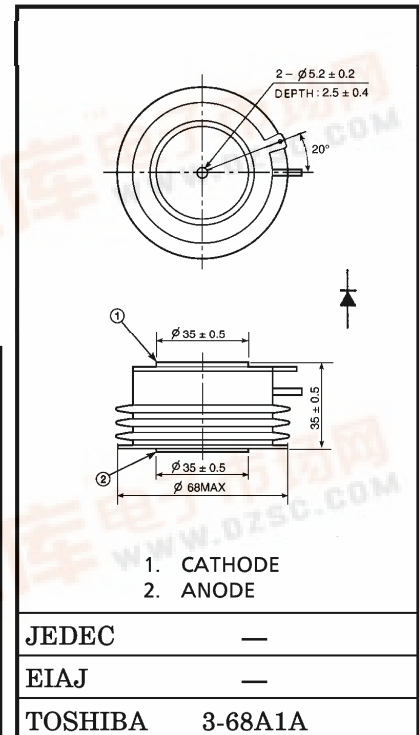
## RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage :  $V_{RRM}=5000V$
- Average Forward Current :  $I_F(AV)=500A$
- Weight : 465g
- Flat Package

## MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	5000	V
Non-Repetitive Peak Reverse Voltage (Non-Repetitive $\leq 5ms$ , $T_j=0\sim 150^{\circ}C$ )	$V_{RSM}$	5300	V
Average Forward Current	$I_F(AV)$	500	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	7200 (50Hz) 8000 (60Hz)	A
Junction Temperature Range	$T_j$	$-40\sim 150$	$^{\circ}C$
Storage Temperature Range	$T_{stg}$	$-40\sim 150$	$^{\circ}C$
Screw Torque	—	$14.7\pm 1.5$	kN

Unit in mm



## ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}$ = Rating voltage, $T_j=150^{\circ}C$	—	40	mA
Peak Forward Voltage	$V_{FM}$	$I_{FM}=1500A$ , $T_j=25^{\circ}C$	—	2.0	V
Thermal Resistance (Junction to Case)	$R_{th(j-f)}$	DC	—	0.05	$^{\circ}C/W$

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