

TOSHIBA ALLOY-FREE RECTIFIER

800EXD28, 800FXD28

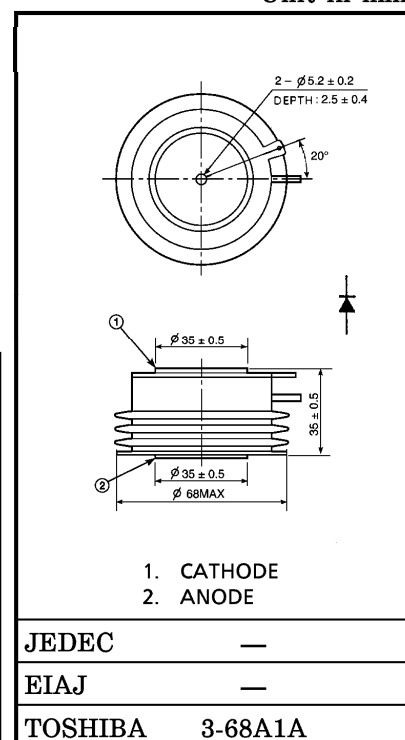
RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM}=2500\sim3000V$
- Average Forward Current : $I_F(AV)=800A$
- Weight : 470g
- Flat Package

MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	800EXD28	V _{RRM}	2500	V
	800FXD28		3000	
Non-Repetitive Peak Reverse Voltage (Non-Repetitive ≤5ms, T _j =0~150°C)	800EXD28	V _{RSM}	2750	V
	800FXD28		3300	
Average Forward Current		I _F (AV)	800	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I _{FSM}	12800 (50Hz)	A
			14000 (60Hz)	
Junction Temperature Range		T _j	−40~150	°C
Storage Temperature Range		T _{stg}	−40~150	°C
Screw Torque		—	14.7±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, $T_j=150^{\circ}C$	—	30	mA
Peak Forward Voltage	V_{FM}	$I_{FM}=2500A$, $T_j=25^{\circ}C$	—	1.55	V
Thermal Resistance (Junction to Case)	$R_{th(j-f)}$	DC	—	0.05	$^{\circ}C/W$

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