TOSHIBA ALLOY-FREE RECTIFIER

## 800EXD28, 800FXD28

**RECTIFIER APPLICATIONS** 

Repetitive Peak Reverse Voltage :  $V_{RRM} = 2500 \sim 3000V$ 

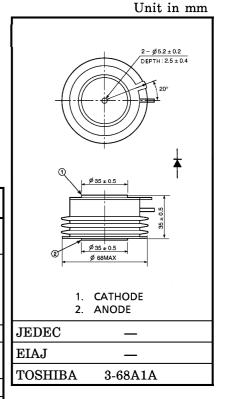
Average Forward Current  $: I_{F(AV)} = 800A$ 

Weight : 470g

Flat Package

## **MAXIMUM RATINGS**

CHARACTERI	SYMBOL	RATING	UNIT		
Repetitive Peak	800EXD28	Vans	2500	v	
Reverse Voltage	800FXD28	$V_{ m RRM}$	3000	<b>V</b>	
Non-Repetitive Peak Reverse Voltage	800EXD28	Veget	2750	v	
(Non-Repetitive $\leq 5 \text{ms}, T_j = 0 \sim 150 ^{\circ}\text{C}$ )	800FXD28	$ m ^{V_{RSM}}$	3300	<b>, v</b>	
Average Forward Curr	I <sub>F (AV)</sub>	800	Α		
Peak One Cycle Surge Forward		$I_{FSM}$	12800 (50Hz)	A	
Current (Non-Repetitiv	14000 (60Hz)				
Junction Temperature Range		Tj	-40~150	$^{\circ}\mathrm{C}$	
Storage Temperature Range		$T_{ m stg}$	-40~150	$^{\circ}\mathrm{C}$	
Screw Torque	_	14.7±1.5	kN		



## **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	$I_{RRM}$	V <sub>RRM</sub> =Rating voltage, T <sub>j</sub> =150°C	_	30	mA
Peak Forward Voltage	$V_{ extbf{FM}}$	$I_{FM} = 2500A, T_j = 25^{\circ}C$	_	1.55	V
Thermal Resistance (Junction to Case)	R <sub>th (j-f)</sub>	DC	1	0.05	°C/W

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