TOSHIBA ALLOY-FREE RECTIFIER

## 800EXD29, 800FXD29

## RECTIFIER APPLICATIONS

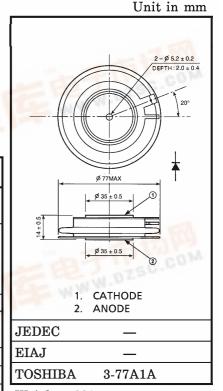
Repetitive Peak Reverse Voltage: VRRM=2500~3000V

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

Flat Package

## **MAXIMUM RATINGS**

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Repetitive Peak	800EXD29	Vanis	2500	V	
Reverse Voltage	800FXD29	$V_{RRM}$	3000		
Non-Repetitive Peak Reverse Voltage	800EXD29	Vncas	2750	V	
(Non-Repetitive $\leq 5 \text{ms}, T_j = 0 \sim 150 ^{\circ}\text{C}$ )	800FXD29	$V_{ m RSM}$	3300		
Average Forward Current		I <sub>F (AV)</sub>	800	A	
Peak One Cycle Surge Forward		I <sub>FSM</sub>	1280 <mark>0 (50Hz)</mark>	A	
Current (Non-Repetitiv	14000 (60Hz)				
Junction Temperature Range		$T_{j}$	-40~150	°C	
Storage Temperature Range		$T_{ m stg}$	-40~150	°C	
Screw Torque	_	$14.7 \pm 1.5$	kN		



Weight: 220g

## **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	$V_{FM}$	$I_{FM} = 2500A, T_j = 25^{\circ}C$	_	1.55	V
Thermal Resistance (Junction to Case)	R <sub>th</sub> (j-f)	DC	_	0.04	°C/W

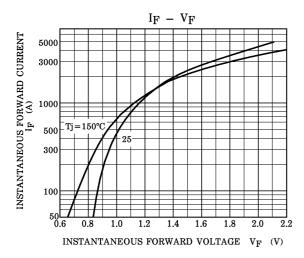
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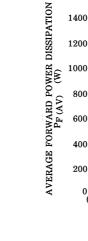


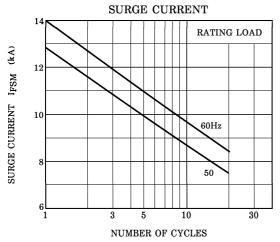
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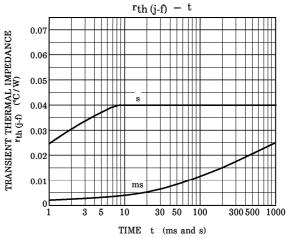
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 $P_{F(AV)} - I_{F(AV)}$ 

400 600 800 1000 1200 1400 1600 1800

AVERAGE FORWARD CURRENT  $I_{F(AV)}$  (A)

SINGLE PHASE