Unit in mm

TOSHIBA ALLOY-FREE RECTIFIER

## 1600EXD25, 1600FXD25

## **RECTIFIER APPLICATIONS**

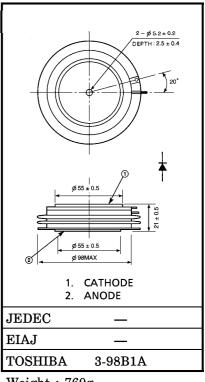
Repetitive Peak Reverse Voltage :  $V_{RRM} = 2500 \sim 3000V$ 

Average Forward Current  $: I_{F(AV)} = 1600A$ 

Flat Package

## **MAXIMUM RATINGS**

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Repetitive Peak	1600EXD25	77	2500	V	
Reverse Voltage	1600FXD25 V <sub>RRM</sub>		3000	\	
Non-Repetitive Peak Reverse Voltage	1600EXD25	$v_{ m RSM}$	2750	V	
(Non-Repetitive $\leq 5 \text{ms}, T_j = 0 \sim 150^{\circ}\text{C}$ )	1600FXD25		3300		
Average Forward Current		I <sub>F (AV)</sub>	1600	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)		I <sub>FSM</sub>	25000 (50Hz) 28000 (60Hz)	A	
Junction Temperature Range		$T_{j}$	-40~150	$^{\circ}\mathrm{C}$	
Storage Temperature Range		$\mathrm{T_{stg}}$	-40~150	$^{\circ}\mathrm{C}$	
Screw Torque		_	19.6±2	kN	



Weight: 760g

## **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	_	50	mA
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 2500A, T_j = 25^{\circ}C$		1.40	V
Thermal Resistance (Junction to Case)	$ m R_{th~(j-f)}$	DC	1	0.02	°C/W

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