

TOSHIBA ALLOY-FREE RECTIFIER

1600EXD25, 1600FXD25

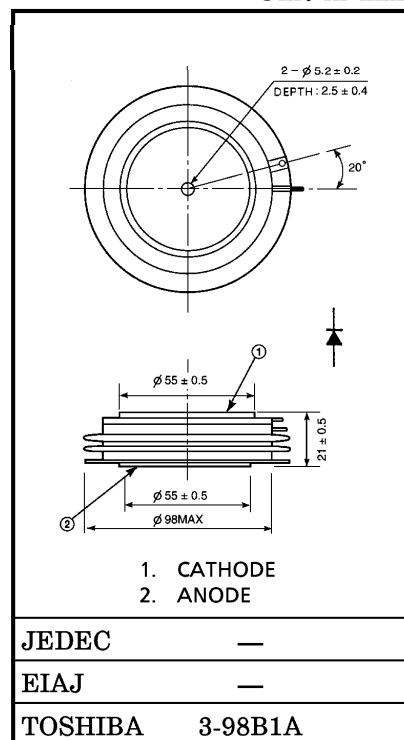
RECTIFIER APPLICATIONS

- 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 Reverse Voltage	1600EXD25	V_{RRM}	2500	V
	1600FXD25		3000	
Non-Repetitive Peak Reverse Voltage (Non-Repetitive $\leq 5ms$, $T_j = 0 \sim 150^\circ C$)	1600EXD25	V_{RSM}	2750	V
	1600FXD25		3300	
Average Forward Current		$I_F (AV)$	1600	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	25000 (50Hz) 28000 (60Hz)	A
Junction Temperature Range		T_j	$-40 \sim 150$	$^\circ C$
Storage Temperature Range		T_{stg}	$-40 \sim 150$	$^\circ C$
Screw Torque		—	19.6 ± 2	kN

Unit in mm



Weight : 760g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = \text{Rating voltage, } T_j = 150^\circ C$	—	50	mA
Peak Forward Voltage	V_{FM}	$I_{FM} = 2500A, T_j = 25^\circ C$	—	1.40	V
Thermal Resistance (Junction to Case)	$R_{th(j-f)}$	DC	—	0.02	$^\circ C / W$

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