

TOSHIBA ALLOY-FREE RECTIFIER

3000HXD22

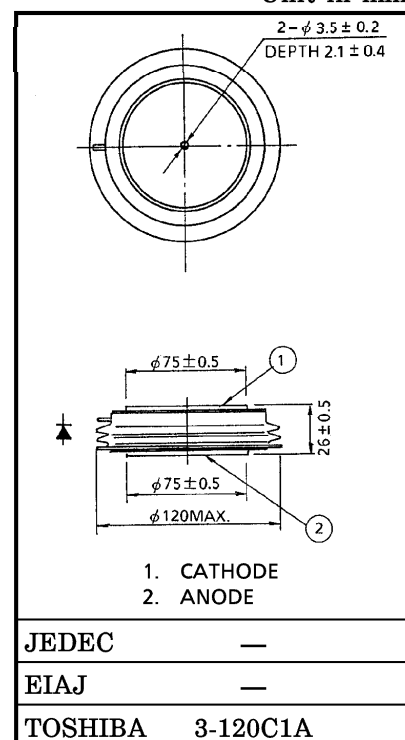
RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM}=5000V$
- Average Forward Current : $I_F(AV)=3000A$
- Flat Package

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	5000	V
Non-Repetitive Peak Reverse Voltage (Non-Repetitive $\leq 5ms$, $T_j = 0 \sim 150^\circ C$)	V_{RSM}	5500	V
Average Forward Current	$I_F(AV)$	3000	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50k (50Hz) 55k (60Hz)	A
Junction Temperature Range	T_j	$-40 \sim 150$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$
Screw Torque	—	36.8 ± 7.4	kN

Unit in mm



Weight : 1300g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = Rating voltage, $T_j = 150^\circ C$	—	120	mA
Peak Forward Voltage	V_{FM}	$I_{FM} = 9500A$, $T_j = 25^\circ C$	—	2.2	V
Thermal Resistance (Junction to Case)	$R_{th(j-f)}$	DC	—	0.011	$^\circ C/W$

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