

TENTATIVE

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

# 1200JXH23

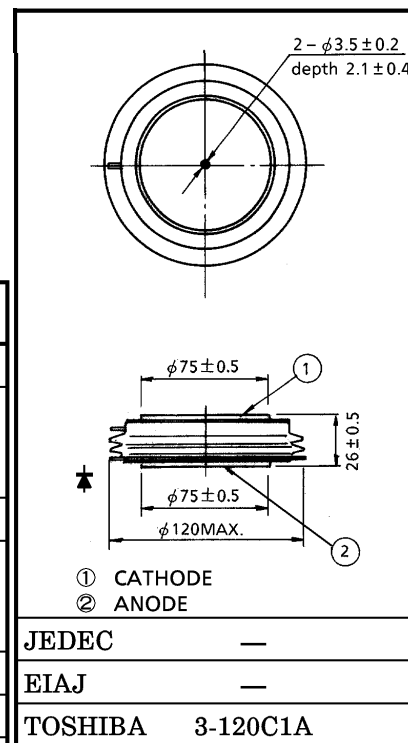
HIGH SPEED RECTIFIER APPLICATIONS

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=6000V$
- Average Forward Current :  $I_F(AV)=1200A$
- Double Side Cooling

MAXIMUM RATING

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	6000	V
Non-Repetitive Peak Reverse Voltage (Non-Repetitive $\leq 5ms$ , $T_j \leq 0 \sim 125^\circ C$ )	$V_{RSM}$	6300	V
Average Forward Current	$I_F(AV)$	1200	A
Peak One Cycle Surge Forward Current (Non-Repetitive, 10ms Width Half Sine Waveform)	$I_{FSM}$	15000	A
Junction Temperature Range	$T_j$	-40~125	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~125	$^\circ C$
Mounting Force	—	$37.3 \pm 7.8$	kN



Weight : 1300g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=4500V, T_j=125^\circ C$	—	150	mA
Peak Forward Voltage	$V_{FM}$	$I_{FM}=3800A, T_j=125^\circ C$	—	4.4	V
Reverse Recovery Charge	$Q_{rr}$	$I_F=1200A, T_j=125^\circ C$ $di_F/dt=100A/\mu s$	—	4000	$\mu C$
Thermal Resistance	$R_{th(j-f)}$	Junction to Fin	—	0.012	$^\circ C/W$

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