

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# 1000GXHH23

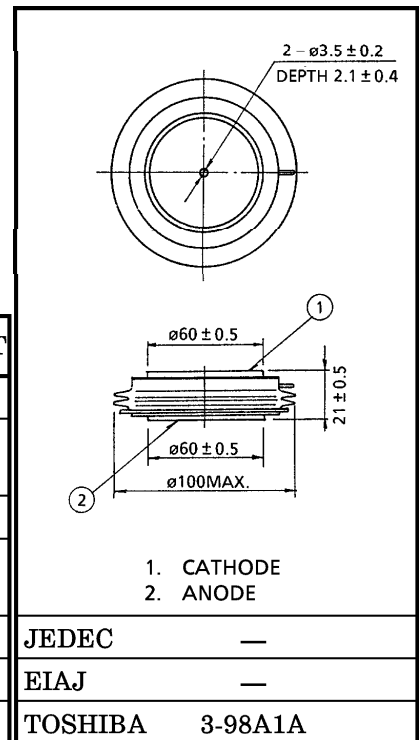
HIGH SPEED RECTIFIER APPLICATIONS.

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 4500V$
- Average Forward Current :  $I_F (AV) = 1000A$
- Double Side Cooling

**MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	4500	V
Non-Repetitive Peak Reverse Voltage (Non-Repetitive $\leq 5ms$ , $T_j \leq 0 \sim 125^\circ C$ )	$V_{RSM}$	4700	V
Average Forward Current	$I_F (AV)$	1000	A
Peak One Cycle Surge Forward Current (Non-Repetitive, 10ms-Half sine waveform)	$I_{FSM}$	19000	A
Junction Temperature Range	$T_j$	-40~125	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~125	$^\circ C$
Mounting Force	—	29.4 $\pm$ 9.8	kN



Weight : 800 g

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = 4500V$ , $T_j = 125^\circ C$	—	60	mA
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 1500A$ , $T_j = 125^\circ C$	—	2.9	V
Reverse Recovery Charge	$Q_{rr}$	$I_F = 800A$ , $T_j = 125^\circ C$ $di_F / dt = 100A / \mu s$	—	1400	$\mu C$
Thermal Resistance	$R_{th(j-f)}$	Juntion to Fin	—	0.014	$^\circ C / W$

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