

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

1000GXHH23

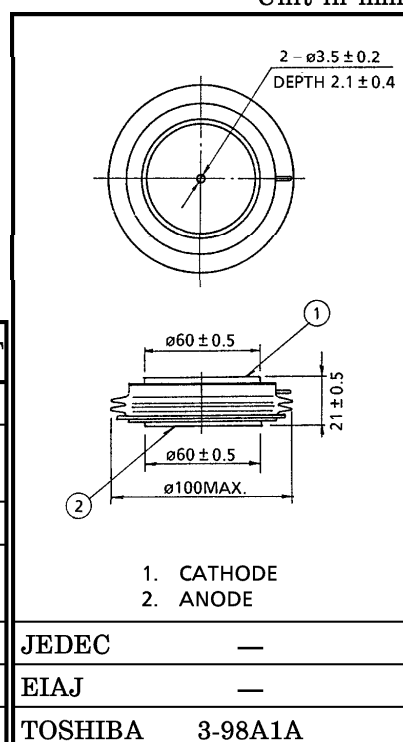
HIGH SPEED RECTIFIER APPLICATIONS.

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	$-40 \sim 125$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 125$	$^\circ C$
Mounting Force	—	29.4 ± 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	μC
Thermal Resistance	$R_{th(j-f)}$	Juntion to Fin	—	0.014	$^\circ C/W$

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