

TOSHIBA ALLOY-FREE RECTIFIER

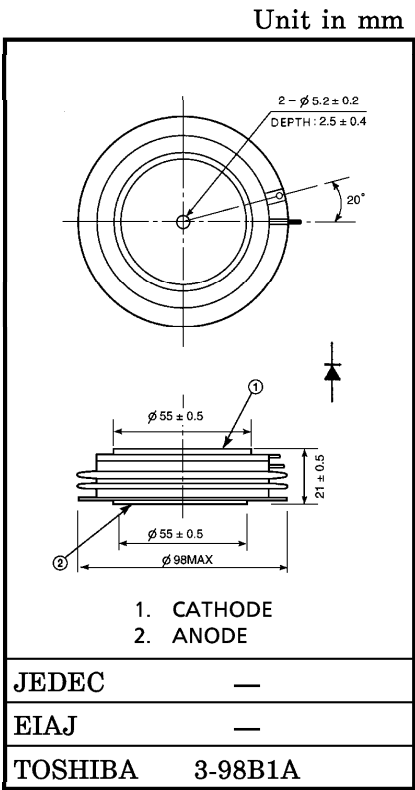
1600GXD22

RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 4000\text{ V}$
- Average Forward Current :  $I_F(\text{AV}) = 1600\text{ A}$
- Flat Package

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	4000	V
Non-Repetitive Peak Reverse Voltage (Non-Repetitive $\leq 5\text{ ms}$ , $T_j = 0\sim 150^\circ\text{C}$ )	$V_{RSM}$	4400	V
Average Forward Current	$I_F(\text{AV})$	1600	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	32 k (50 Hz) 35 k (60 Hz)	A
Junction Temperature Range	$T_j$	$-40\sim 150$	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	$-40\sim 150$	$^\circ\text{C}$
Screw Torque	—	$29.4\pm 9.8$	kN



Weight : 760 g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = \text{Rating voltage}, T_j = 150^\circ\text{C}$	—	120	mA
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 5000\text{ A}, T_j = 25^\circ\text{C}$	—	1.7	V
Thermal Resistance (Junction to Case)	$R_{th(j-f)}$	DC	—	0.018	$^\circ\text{C/W}$

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