

TOSHIBA THYRISTOR SILICON DIFFUSED TYPE

3000YKD23

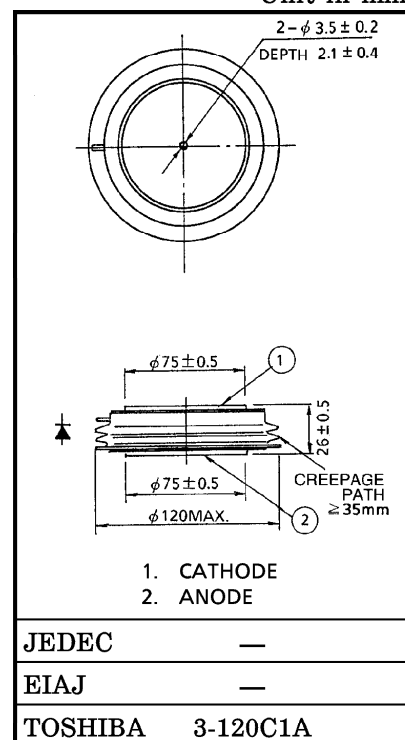
RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM}=2700V$
- Average Forward Current : $I_F(AV)=3000A$
- Flat Package

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	2700	V
Non-Repetitive Peak Reverse Voltage (Non-Repetitive $\leq 5ms$, $T_j = 0 \sim 150^\circ C$)	V_{RSM}	3050	V
Average Forward Current	$I_F(AV)$	3000	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	60kV (50Hz) 66kV (60Hz)	A
Junction Temperature Range	T_j	$-40 \sim 150$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$
Screw Torque	—	37.3 ± 7.8	kN

Unit in mm



Weight : 1300g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=2700V$, $T_j=150^\circ C$	—	120	mA
Peak Forward Voltage	V_{FM}	$I_{FM}=9500A$, $T_j=25^\circ C$	—	1.57	V
Thermal Resistance (Junction to Case)	$R_{th(j-f)}$	DC	—	0.012	$^\circ C/W$
Reverse Recovery Charge	Q_{rr}	$I_p=2000A$, $di/dt = -2A/\mu s$ $T_j=150^\circ C$	—	5500	μC

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