

TENTATIVE

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

800JXH23

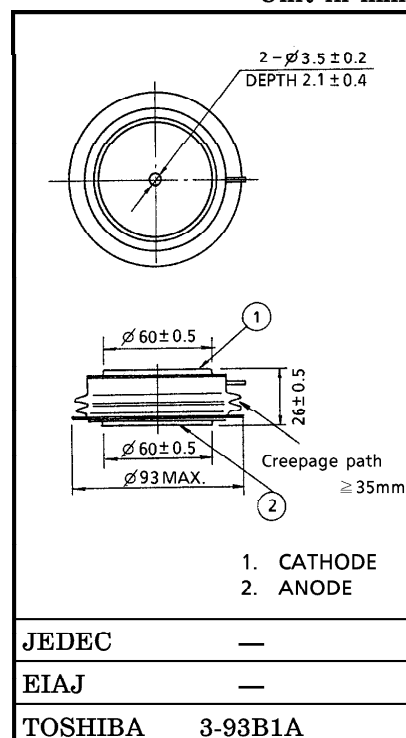
HIGH SPEED RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM}=6000V$
- Average Forward Current : $I_F(AV)=800A$
- Double Side Cooling

MAXIMUM RATINGS ($T_a = 25^\circ C$)

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	$I_F(AV)$	800	A
Peak One Cycle Surge Forward Current (Non-Repetitive, 10ms Width Half Sine Waveform)	I_{FSM}	16000	A
Junction Temperature Range	T_j	$-40 \sim 125$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$
Mounting Force	—	29.4 ± 9.8	kN

Unit in mm



Weight : 800g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=6000V$, $T_j=125^\circ C$	—	—	100	mA
Peak Forward Voltage	V_{FM}	$I_{FM}=2500A$, $T_j=125^\circ C$	—	5.0	—	V
Reverse Recovery Charge	Q_{rr}	$I_F=800A$, $T_j=125^\circ C$ $di_F / dt = 100A / \mu s$	—	1800	—	μC
Thermal Resistance	$R_{th(j-f)}$	DC	—	—	0.014	$^\circ C / W$

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