TOSHIBA 800JXH23

TENTATIVE

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

HIGH SPEED RECTIFIER APPLICATIONS

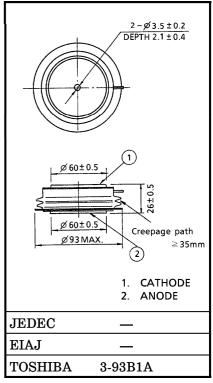
Repetitive Peak Reverse Voltage $: V_{RRM} = 6000 V$

Average Forward Current $: I_{F(AV)} = 800 A$

Double Side Cooling

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	v_{RRM}	6000	V
$\begin{array}{c} \text{Non-Repetitive Peak Reverse} \\ \text{Voltage (Non-Repetitive} \leq 5 \text{ ms,} \\ T_j \leq 0 {\sim} 125 {^{\circ}\text{C}}) \end{array}$	$v_{ m RSM}$	6300	V
Average Forward Current	I _F (AV)	800	A
Peak One Cycle Surge Forward Current (Non-Repetitive, 10 ms Width Half Sine Waveform)	I_{FSM}	16000	A
Junction Temperature Range	T_{j}	-40~125	°C
Storage Temperature Range	$T_{ m stg}$	-40~150	°C
Mounting Force	_	29.4±9.8	kN



Unit in mm

Weight: 800 g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 6000 \text{ V}, T_j = 125^{\circ}\text{C}$	_	_	100	mA
Peak Forward Voltage	V_{FM}	$I_{FM} = 2500 \text{ A}, T_j = 125^{\circ}\text{C}$	_	_	5.0	V
Reverse Recovery Charge	Q _{rr}	$I_{ m F} = 800 m A, T_j = 125 ^{\circ} m C$ $di_{ m F} / dt = 100 m A / \mu s$	_	_	1700	μ C
Thermal Resistance	R _{th (j-f)}	DC	_	_	0.014	°C/W

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