TOSHIBA 1500JXH22

TENTATIVE

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

1500JXH22

HIGH SPEED RECTIFIER APPLICATIONS

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

Average Forward Current $: I_{F(AV)} = 1500 A$

Double Side Cooling

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	6000	V
$\label{eq:non-Repetitive Peak Reverse} $$ Voltage (Non-Repetitive ≤ 5 ms, $$ T_j \le 0 \sim 125 ^{\circ}C)$$	$v_{ m RSM}$	6300	V
Average Forward Current	I _F (AV)	1500	A
Peak One Cycle Surge Forward Current (Non-Repetitive, 10 ms Width Half Sine Waveform)	I_{FSM}	25000	A
Junction Temperature Range	T_{j}	-40~125	°C
Storage Temperature Range	$T_{ m stg}$	-40~150	°C
Mounting Force	_	70~100	kN

2 - Ø5.2 ± 0.2 DEPTH 2.5 ± 0.4 Ø100 ± 0.5 Ø100 ± 0.5 Ø150MAX 1. CATHODE ANODE **JEDEC EIAJ TOSHIBA**

Unit in mm

Weight: 3000 g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Repetitive Peak Reverse Current	I_{RRM}	$V_{ m RRM} = 6000 \ m V, \ T_j = 125 m ^{\circ} C$	_	_	150	mA
Peak Forward Voltage	$V_{ extbf{FM}}$	$I_{FM} = 4500 \text{ A}, T_j = 125^{\circ}\text{C}$	_	_	5.5	V
Reverse Recovery Charge	Q_{rr}	$I_{ m F} = 1500 m A, T_{ m j} = 125 { m ^{\circ} C} \ m di_{ m F} / dt = 100 m A / \mu s$	_	_	3150	μC
Thermal Resistance	R _{th (j-f)}	DC	_	_	0.0075	°C/W

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