TOSHIBA 500YKH22

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

500YKH22

HIGH SPEED RECTIFIER APPLICATIONS

Unit in mm

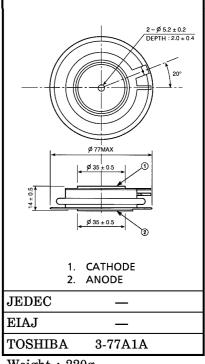
Repetitive Peak Reverse Voltage $: V_{RRM} = 2700V$

Average Forward Current $: I_{F(AV)} = 500A$

: $t_{rr} = 5 \mu s (MAX.) (T_j = 25^{\circ}C)$ Reverse Recovery Time

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	v_{RRM}	2700	V	
Non-Repetitive Peak Reverse Voltage (Non-Repetitive ≤ 5 ms, $T_j = 0 \sim 125$ °C)	V _{RSM}	2800	V	
Average Forward Current	I _{F (AV)}	500	Α	
Peak One Cycle Surge Forward	${ m ^{I}FSM}$	10000 (50Hz)	A	
Current	-F.GWI	11000 (60Hz)		
Junction Temperature Range	T_{j}	-40~125	$^{\circ}\mathrm{C}$	
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~125	$^{\circ}\mathrm{C}$	
Mounting Force	_	14.7±1.5	kN	



Weight: 220g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM}	$V_{ m RRM} = 2500 m V, \ T_j = 125 m ^{\circ} C$			100	mA
Peak Forward Voltage	v_{FM}	$I_{FM} = 1500A, T_j = 25^{\circ}C$		I	2.0	V
Reverse Recovery Time	t _{rr}	$I_{ m F}$ =500A $di_{ m F}/dt$ =100A/ μ s	$T_j = 25$ °C	ı	5.0	,,,
			$T_j = 125$ °C	l	6.0	μ s
Thermal Resistance (Junction to Fin)	R _{th (j-f)}	DC			0.04	°C/W

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