TOSHIBA 100GXHH22

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

100GXHH22

HIGH SPEED RECTIFIER APPLICATIONS

Unit in mm

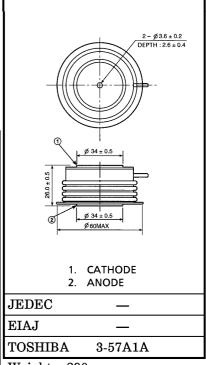
Repetitive Peak Reverse Voltage $: V_{RRM} = 4500V$

Average Forward Current $: I_{F(AV)} = 100A$

: $t_{rr} = 5.5 \mu s$ Reverse Recovery Time

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V_{RRM}	4500	V	
Non-Repetitive Peak Reverse Voltage (Non-Repetitive ≤ 5 ms, $T_j=0\sim 125$ °C)	V _{RSM}	4700	V	
Average Forward Current	I _{F (AV)}	100	Α	
Peak One Cycle Surge Forward	Inche	2000 (50Hz)	A	
Current (Non-Repetitive)	IFSM	2200 (60Hz)		
Junction Temperature Range	T_j	-40~125	$^{\circ}\mathrm{C}$	
Storage Temperature Range	$ m T_{stg}$	-40~125	$^{\circ}\mathrm{C}$	
Mounting Force	_	14.7±1.5	kN	



Weight: 290g

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	$I_{ m RRM}$	$V_{RRM} = 4500V, T_j = 125^{\circ}C$		_	50	mA
Peak Forward Voltage	$ m V_{FM}$	$I_{FM} = 320A \ (T_j = 25^{\circ}C)$		_	2.0	V
Reverse Recovery Time	$\mathfrak{t}_{\mathbf{rr}}$	$I_{ m F}$ = 100A	$T_j = 25$ °C	_	5.5	
		$ ext{di}_{ extbf{F}}/ ext{dt}\!=\!100 ext{A}/\mu ext{s}$	$T_j = 125$ °C	_	7.0	μ s
Thermal Resistance	R _{th (j-f)}	Junction to Fin		_	0.045	°C/W

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TOSHIBA Semiconductor Reliability Handbook.

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