TOSHIBA RECTIFIER STACK SILICON DIFFUSED TYPE

## 1B4B42, 1G4B42, 1J4B42

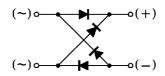
SINGLE PHASE BRIDGE RECTIFIER APPLICATIONS

Unit in mm

• Repetitive Peak Reverse Voltage :  $V_{RRM} = 100 \sim 600 V$ 

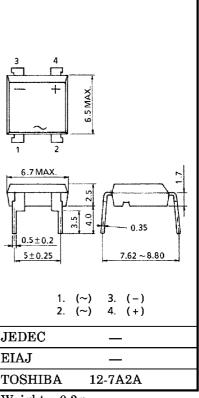
• Average Output Rectified Current :  $I_O = 1.0A$  (Ta = 25°C)

**POLARITY** 



## MAXIMUM RATINGS

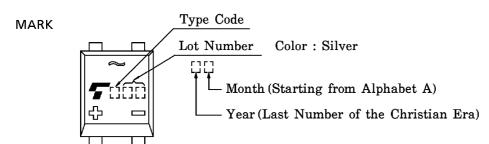
CHARACTERISTIC		SYMBOL	RATINGS	UNIT	
D CC D D	1B4B42		100	V	
Repetitive Peak Reverse Voltage	1G4B42	$V_{RRM}$	400		
	1J4B42		600		
Average Output Rectified Current		$I_{O}$	1.0	Α	
Peak One Cycle Surge Fo	I <sub>FSM</sub>	30 (50Hz)	Α		
Current (Non Repetitive)		33 (60Hz)	A		
Junction Temperature	$T_{j}$	-40~150	°C		
Storage Temperature Range		$\mathrm{T_{stg}}$	-40~150	$^{\circ}\mathrm{C}$	



Weight: 0.3g

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

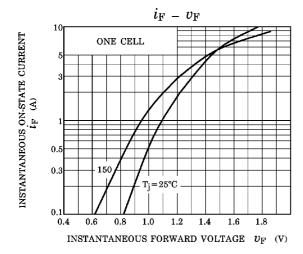
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	${ m v_{FM}}$	$I_{\text{FM}} = 0.5 A$	I	_	1.0	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = Rated$	l	_	10	$\mu$ A
Thermal Resistance (Junction to Ambient)	$ m R_{th~(j-a)}$	DC	I	_	75	°C/W

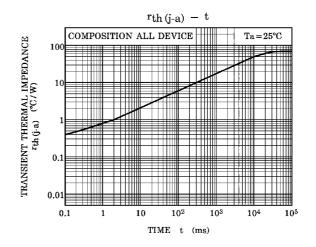


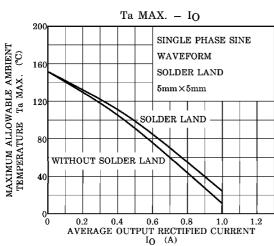
CODE	TYPE
В	1B4B42
G	1G4B42
J	1J4B42

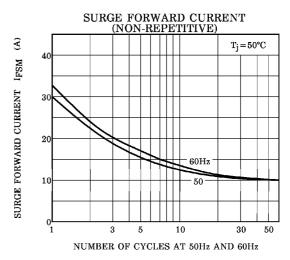
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