

**TOSHIBA**

U1B4B42, U1G4B42, U1J4B42

TOSHIBA RECTIFIER STACK SILICON DIFFUSED TYPE

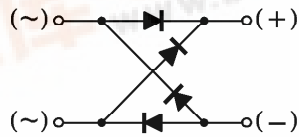
# U1B4B42, U1G4B42, U1J4B42

Unit in mm

○ SINGLE PHASE BRIDGE RECTIFIER APPLICATIONS.

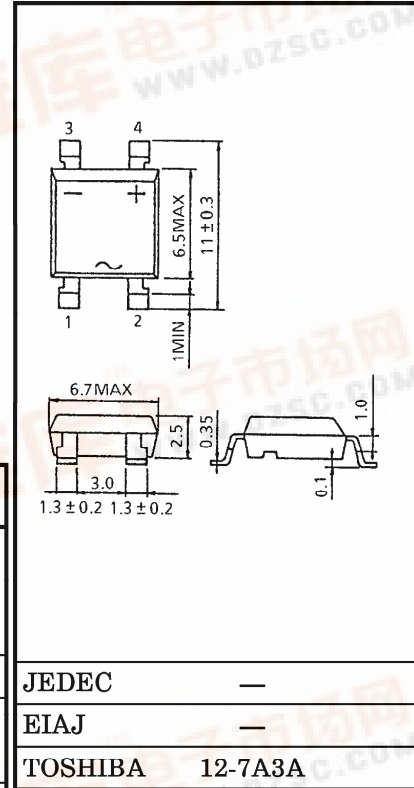
- Repetitive Peak Reverse Voltage :  $V_{RRM} = 100 \sim 600V$
- Average Output Rectified Current :  $I_O (AV) = 1.0A (T_a = 25^\circ C)$

POLARITY



MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	U1B4B42	100	V
	U1G4B42	400	
	U1J4B42	600	
Average Output Rectified Current	$I_O$	1.0	A
Peak One Cycle Surge Forward Current (Non Repetitive)	$I_{FSM}$	30 (50Hz)	A
		33 (60Hz)	
Junction Temperature	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C

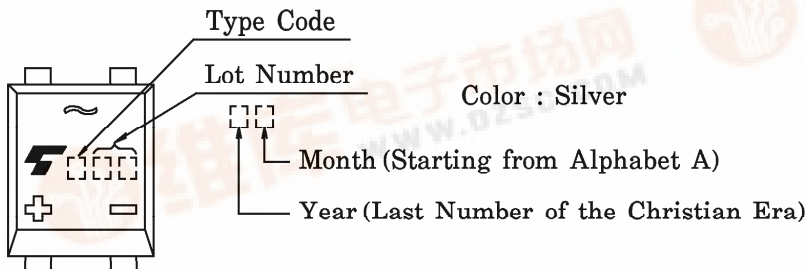


Weight : 0.3g

ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

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

MARK



CODE	TYPE
B	U1B4B42
G	U1G4B42
J	U1J4B42

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TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

