



U05(B, G, J)4B48

SILICON DIFFUSED TYPE RECTIFIER STACK

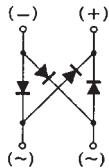
Reverse Voltage - 100 to 600 Volts

Forward Current - 0.5 Ampere

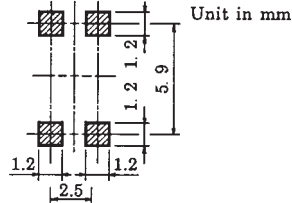
Application: SINGLE PHASE BRIDGE RECTIFIER APPLICATIONS

- Repetitive peak reverse voltage: $V_{RRM}=100\sim600\text{Volts}$
- Average output rectified current: $I_O=0.5\text{A}$ ($T_A=30^\circ\text{C}$)
- Glass passivated cavity-free junction
- Dual in line type
- Plastic package

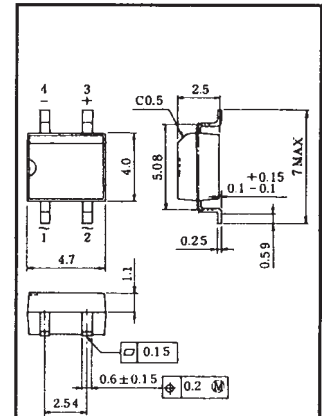
POLARITY



Standard Soldering Pad



Unit in mm



1. (~) 2. (~)
3. (+) 4. (-)

JEDEC

EIAJ

TOSHIBA 12-5A2A

Weight : 0.13g

Maximum Ratings

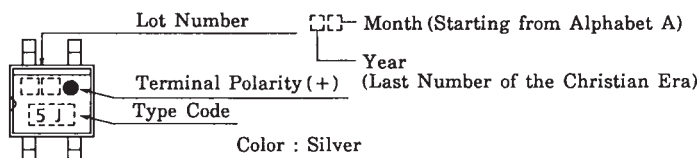
Characteristics	Symbols	Ratings	Units
Repetitive peak reverse voltage	U05B4B48	100	Volts
	U05G4B48	400	
	U05J4B48	600	
Average output rectified current ($T_A=30^\circ\text{C}$)	I_O	0.5 0.8 *	Amp
Peak one cycle surge forward current (Non Repetitive)	I_{FSM}	30 (50Hz) 33 (60Hz)	Amps
Junction temperature	T_J	-40 to 150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-40 to 150	$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$)

* On alumina substrate

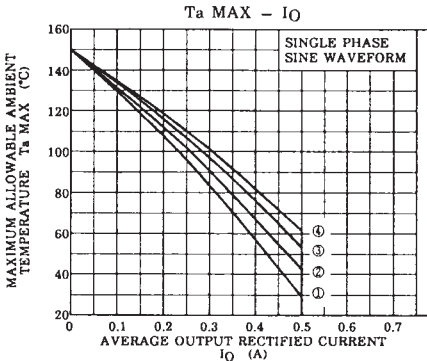
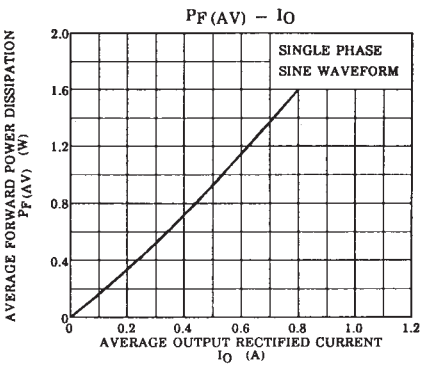
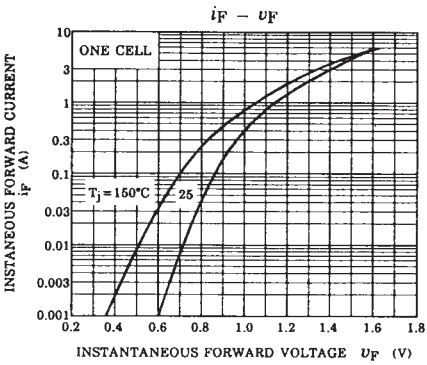
Characteristics	Symbols	Test Conditions	Min.	Typ.	Max.	Units
Peak forward voltage	V_{FM}	$I_{FM}=0.4\text{A}$	-	-	1.0	Volt
Repetitive peak reverse current	I_{RRM}	$V_{RRM}=\text{Rated}$	-	-	10	μA
Thermal resistance (Junction to Ambient)	$R_{th(J-A)}$	DC	-	-	130 75 *	$^\circ\text{C/W}$

MARK



Code	Type
5B	U05B4B48
5G	U05G4B48
5J	U05J4B48

U05(B,G,J)4B48



① WITHOUT HEAT SINK
② SOLDER LAND $2 \times 2\text{mm}$
③ SOLDER LAND $5 \times 5\text{mm}$
④ SOLDER LAND $7 \times 7\text{mm}$

$a \times a$: SOLDER LAND SIZE
(ON GLASS-EPOXI SUBSTRATE)

