

## 4A, 50V - 1000V Glass Passivated Bridge Rectifiers

### **FEATURES**

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength of  $2000V_{\text{RMS}}$
- Reliable low cost construction
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21









### **MECHANICAL DATA**

Case: TS4B

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body **Mounting torque:** 5 in-lbs maximum

Weight: 4 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted)									
PARAMETER	SYMBOL	TS4B TS4	TS4B	TS4B	TS4B	TS4B	TS4B	TS4B	UNIT
PARAIVIE I ER		01G	02G	03G	04G	05G	06G	07G	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	F(AV)	4					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	120					А		
Rating for fusing (t<8.3ms)	l <sup>2</sup> t	60					$A^2s$		
Maximum instantaneous forward voltage (Note 1) @ 2 A @ 4 A	V <sub>F</sub>	1.0 1.1					V		
Maximum reverse current @ rated V <sub>R</sub> T <sub>J</sub> =25°C T <sub>J</sub> =125°C	I <sub>R</sub>	5 500				μA			
Typical thermal resistance	$R_{ heta JC}$				5.5				°C/W
Operating junction temperature range	T <sub>J</sub>	- 55 to +150			°C				
Storage temperature range	T <sub>STG</sub>	- 55 to +150			°C				

Note 1: Pulse test with PW=300µs, 1% duty cycle

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ORDERING INFORMATION						
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING	
	SUFFIX	CODE	SUFFIX (*)			
T0.4D00		C2		TS4B	20 / Tube	
TS4B0xG (Note 1)	Н	X0	G	TS4B	Forming	
(Note 1)		D2		TS4B	20 / Tube	

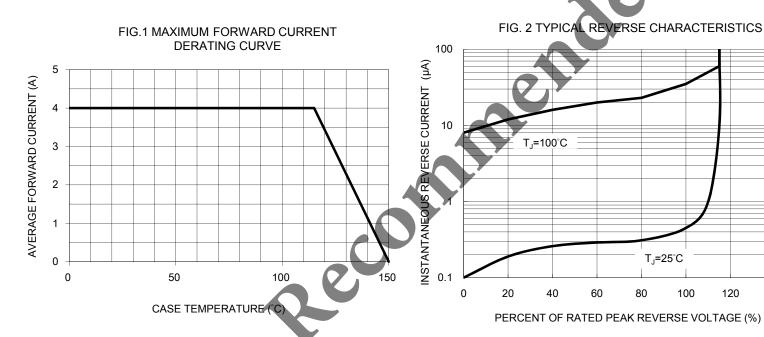
Note 1: "x" defines voltage from 50V (TS4B01G) to 1000V (TS4B07G)

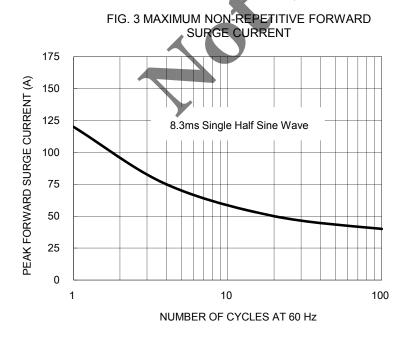
<sup>\*:</sup> Optional available

EXAMPLE						
PREFERRED P/N	/N PART NO. PACKING O		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
TS4B01GHC2G	TS4B01G	Н	C2	G	AEC-Q101 qualified Green compound	

### **RATINGS AND CHARACTERISTICS CURVES**

(T<sub>A</sub>=25°C unless otherwise noted)





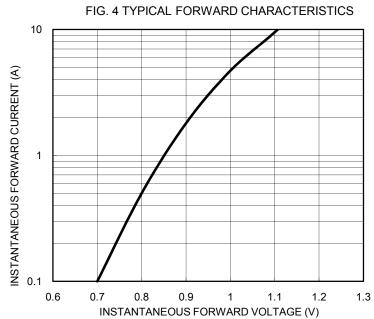
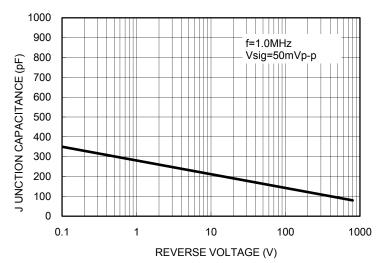
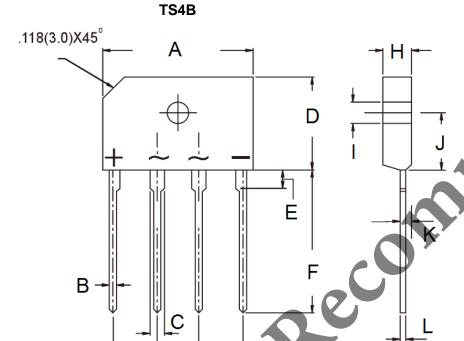




FIG. 5 TYPICAL JUNCTION CAPACITANCE



# PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min Max		Min	Max	
Α	24.70	25.30	0.972	0.996	
В	0.90	1.10	0.035	0.043	
C	1.80	2.20	0.071	0.087	
P	14.70	15.30	0.579	0.602	
E	3.96	4.37	0.156	0.172	
F	17.00	18.00	0.669	0.709	
G	7.30	7.70	0.287	0.303	
Н	3.30	3.70	0.130	0.146	
I	3.10	3.40	0.122	0.134	
J	9.30	9.70	0.366	0.382	
K	1.52	1.73	0.060	0.068	
Ĺ	0.55	0.75	0.022	0.030	

## **MARKING DIAGRAM**



Specific Device Code

G = Green Compound YWW = Date Code

= Factory Code





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