

6A, 50V - 1000V Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength of $\rm 2000V_{RMS}$
- 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

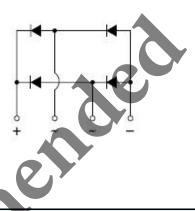
MECHANICAL DATA

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 _A =25°C unless otherwise noted)								
SYMPOL	TS6B TS6B		TS6B	TS6B	TS6B	TS6B	TS6B	UNIT
STINBOL	01G	02G	03G	04G	05G	06G	07G	
V _{RRM}	50	100	200	400	600	800	1000	V
V _{RMS}	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
I _{F(AV)}	6					А		
I _{FSM}	150				A			
l ² t	93					A ² s		
V _F				1.0 1.1				V
I _R	5 500						μA	
R _{eJC}	1.5				°C/W			
TJ	- 55 to +150			°C				
T _{STG}	- 55 to +150 °C			°C				
	SYMBOL V_{RRM} V_{RMS} V_{DC} $I_{F(AV)}$ I_{FSM} I^2t V_F I_R $R_{\theta,JC}$ T_J	SYMBOL TS6B 01G V_{RRM} 50 V_{RMS} 35 V_{DC} 50 $I_{F(AV)}$ 50 $I_{F(AV)}$ 50 I_{FSM} - $I^2 t$ - I_{R} - I_R - $R_{\theta JC}$ - T_J -	$\begin{tabular}{ c c c c } \hline $F(A,B,C) & $T(A,B,B,C) & $T(A,B,B,C) & $T(A,B,B,C,C) & $T(A,B,B,C) &$	$\begin{array}{ c c c c c } \hline SYMBOL & TS6B & TS6B & 03G \\ \hline O1G & 02G & 03G \\ \hline O2G & 03G \\ \hline O2$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{tabular}{ c c c c c } \hline FGB$ & TGB$ & $03G$ & $04G$ & $05G$ \\ \hline $01G$ & $02G$ & $03G$ & $04G$ & $05G$ \\ \hline $01G$ & 100 & 200 & 400 & 600 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 & 420 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{PC} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{F} & 150 & $-$510$ \\ \hline V_{F} & 1.0 & 1.1 \\ \hline V_{F} & 1.0 & 1.1 \\ \hline V_{R} & 5 & 500 \\ \hline V_{R} & 5 & 500 \\ \hline $R_{0,C}$ & $-$510$ + 150 \\ \hline \end{tabular}$	$\begin{array}{ c c c c } \hline Reg for the term of the term of the term of t$	$ \begin{array}{c c c c c } \hline TS6B & O7G & O7G & O1G & O1G & O2G & O3G & O4G & O5G & O6G & O7G & O7G & O7G & 000 & 00$

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



Taiwan Semiconductor

ORDERING INFORMATION					
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING
	SUFFIX	CODE	SUFFIX ^(*)		
TOODONO		C2		TS4B	20 / Tube
TS6B0xG (Note 1)	Н	X0	G	TS4B	Forming
		D2		TS4B	20 / Tube

Note 1: "x" defines voltage from 50V (TS6B01G) to 1000V (TS6B07G)

*: Optional available

EXAMPLE							
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TS6B01GHC2G	TS6B01G	Н	C2	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

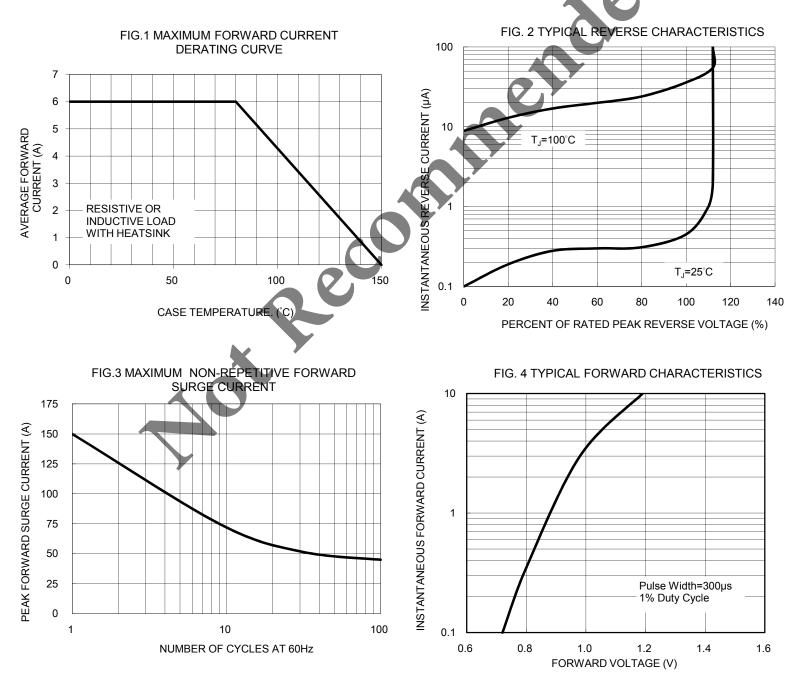
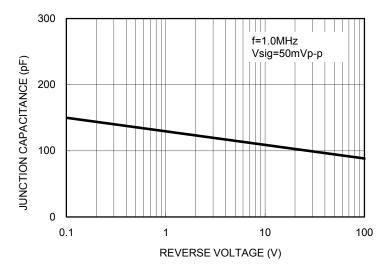
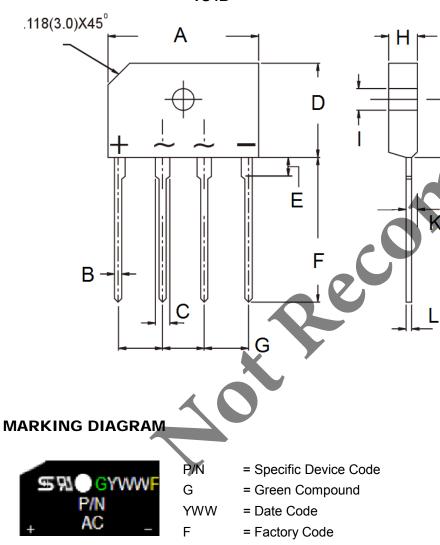




FIG. 5 TYPICAL JUNCTION CAPACITANCE

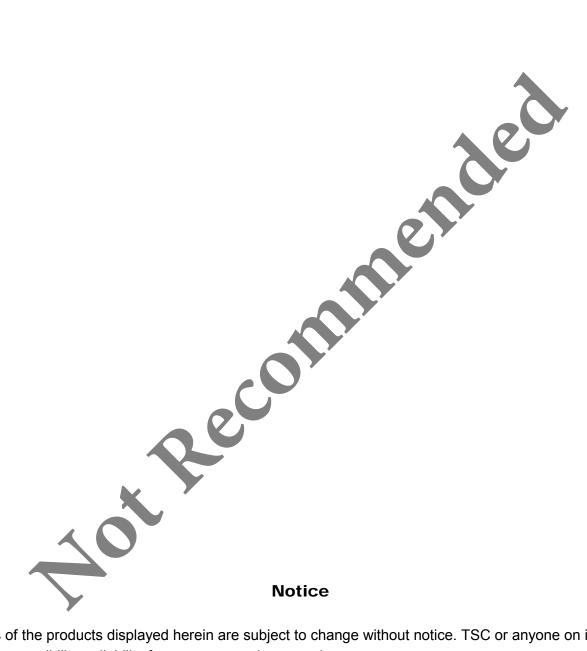






DIM.	Unit	(mm)	Unit (inch)			
Diwi.	Min	Max	Min	Мах		
А	24.70	25.30	0.972	0.996		
В	0.90	1.10	0.035	0.043		
С	1.80	2.20	0.071	0.087		
D	14.70	15.30	0.579	0.602		
E	3.96	4.37	0.156	0.172		
F	17.00	18.00	0.669	0.709		
G	7.30	7.70	0.287	0.303		
Н	3.30	3.70	0.130	0.146		
I	3.10	3.40	0.122	0.134		
J	9.30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





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