



Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength of 2000VRMS
- 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 definition





TS4B



MECHANICAL DATA

Case: TS4B

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test					~	_		
Polarity: Polarity as marked on the body								
Mounting torque: 5 in-lbs maximum								
Weight: 4 g (approximately)								
MAXIMUM RATINGS AND ELECTRICAL (CHARACTERISTI	CS (T _A =	-25 ℃ ur	nless oth	nerwise	noted)		
DADAMETED	CVMPOL	TS6B	TS6B	TS6B	TS6B	TS6B	TS6B	TS6E
PARAMETER	SYMBOL	01G	02G	03G	04G	05G	06G	07G
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000
Maximum RMS voltage	Value	35	70	140	280	420	560	700

PARAMETER	SYMBOL	TS6B	TS6B TS6B TS6B TS6B TS6B TS6E		TS6B	TS6B	UNIT		
PARAIVIETER	STIVIBUL	01G	02G	03G	04G	05G	06G	07G	CIVIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	6						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150						Α	
Rating for fusing (t<8.3ms)	I ² t	93						A ² s	
Maximum instantaneous forward voltage (Note 1) @ 3 A @ 6 A	V_{F}	1.0 1.1					V		
Maximum DC reverse current T_J =25 $^{\circ}$ Cat rated DC blocking voltage T_J =125 $^{\circ}$ C	I _R	5 500				μΑ			
Typical thermal resistance	$R_{ heta JC}$	1.5						°C/W	
Operating junction temperature range	T _J	- 55 to +150						оС	
Storage temperature range	T _{STG}	- 55 to +150						оС	

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



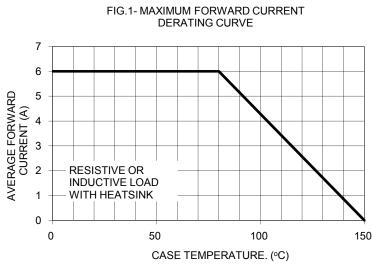
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING			
		CODE					
TOODO	C2		TS4B	20 / TUBE			
TS6B0xG (Note 1)	X0	Suffix "G"	TS4B	Forming			
	D2		TS4B	20 / TUBE			

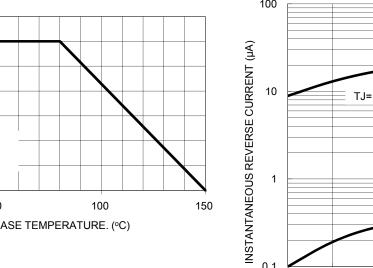
Note 1: "x" defines voltage from 50V (TS6B01G) to 1000V (TS6B07G)

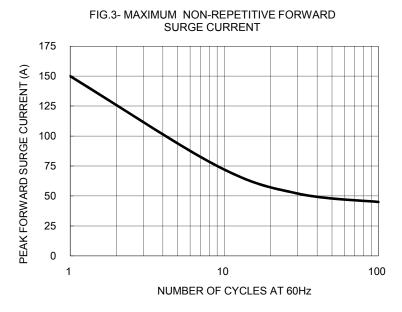
EXAMPLE								
PREFERRED P/N PART NO.		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION				
TS6B01G C2	TS6B01G	C2						
TS6B01G C2G	TS6B01G	C2	G	Green compound				

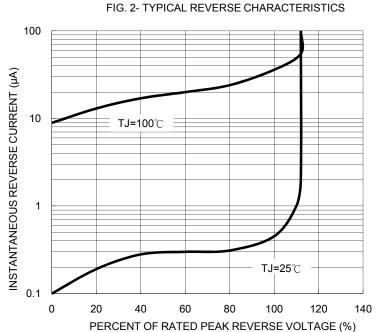
RATINGS AND CHARACTERISTICS CURVES

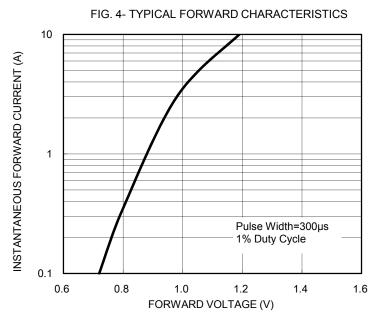
(TA=25°C unless otherwise noted)





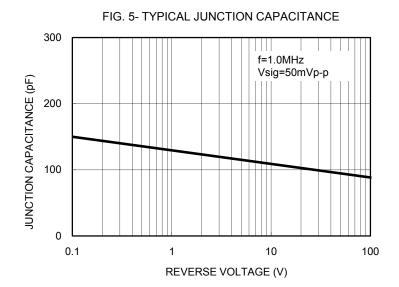




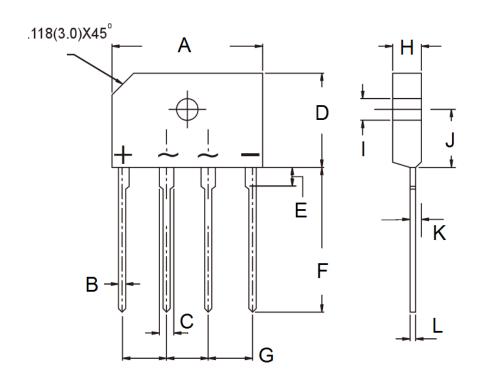


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PACKAGE OUTLINE DIMENSIONS



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		
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		
ļ	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		
L	0.55	0.75	0.022	0.030		

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code

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