

Glass Passivated Bridge Rectifiers

FEATURES

- UL Recognized File # E-326243
- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength of 2000VRMS
- Reliable low cost construction
- 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, RoHS compliant

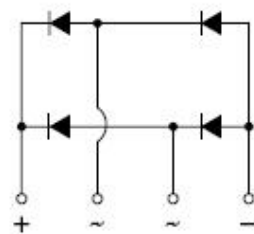
Terminal : Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity : Polarity as marked on the body

Mounting torque : 5 in-lbs maximum

Weight : 4 gram (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TSS4B 01G	TSS4B 02G	TSS4B 03G	TSS4B 04G	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	V
Maximum average forward rectified current	I _{F(AV)}	4				A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				A
Rating for fusing (t<8.3ms)	I ² T	93				A ² sec
Maximum instantaneous forward voltage (Note 1) @ 4 A	V _F	0.98			1.3	V
Maximum DC reverse current at rated DC blocking voltage T _J =25 °C T _J =125°C	I _R	5 500				uA
Maximum Reverse Recovery Time(Note 2)	T _{rr}	35			50	nS
Typical thermal resistance	R _{θJC}	5.5				°C/W
Operating junction temperature range	T _J	- 55 to + 150				°C
Storage temperature range	T _{STG}	- 55 to + 150				°C

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

Note 2 : Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.

ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
TSS4B0xG (Note 1)	C2	Suffix "G"	TS4B	20 / TUBE
	X0		TS4B	Forming
	D2		TS4B	20 / TUBE
	X2		TS4B	Forming

Note 1: "x" defines voltage from 50V (TSS4B01G) to 400V (TSS4B04G)

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
TSS4B01G C2	TSS4B01G	C2		
TSS4B01G C2G	TSS4B01G	C2	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

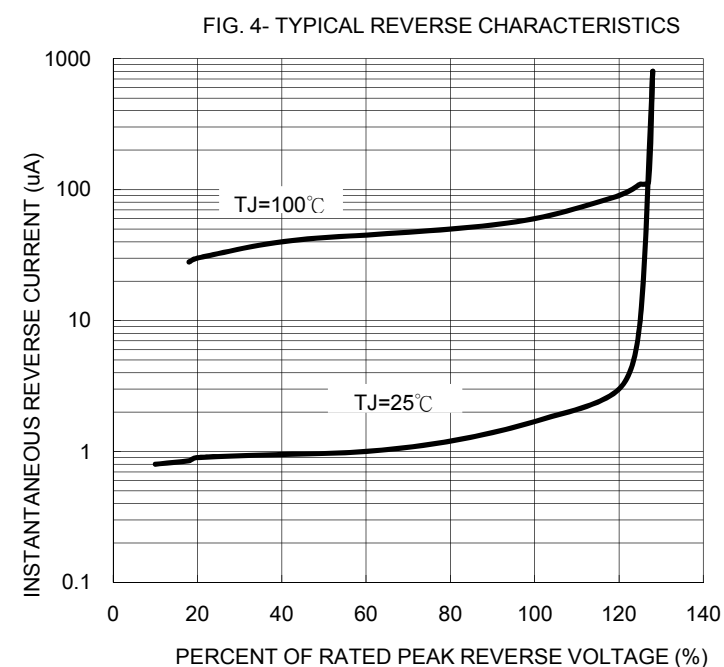
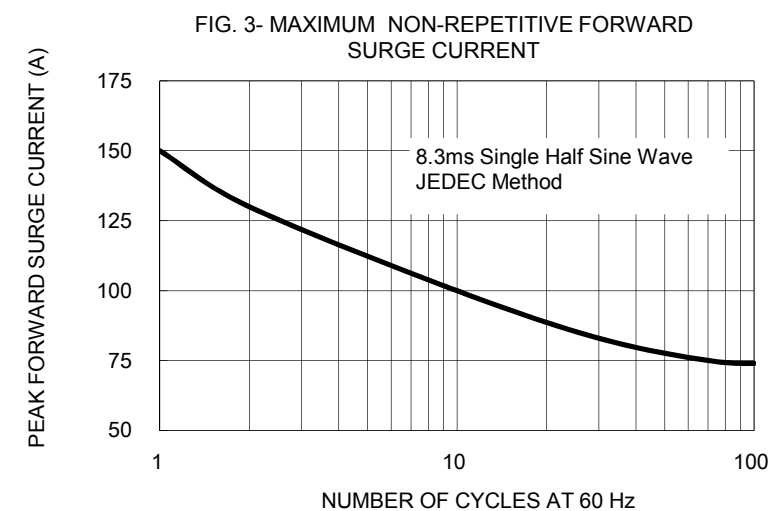
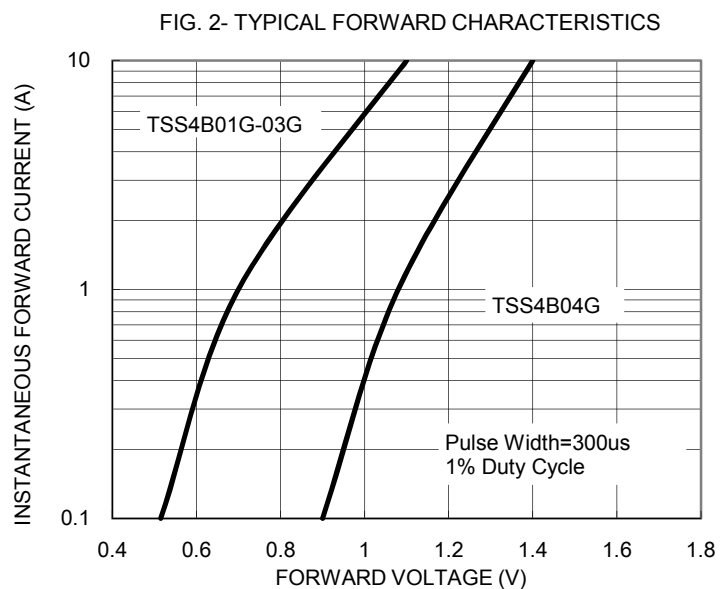
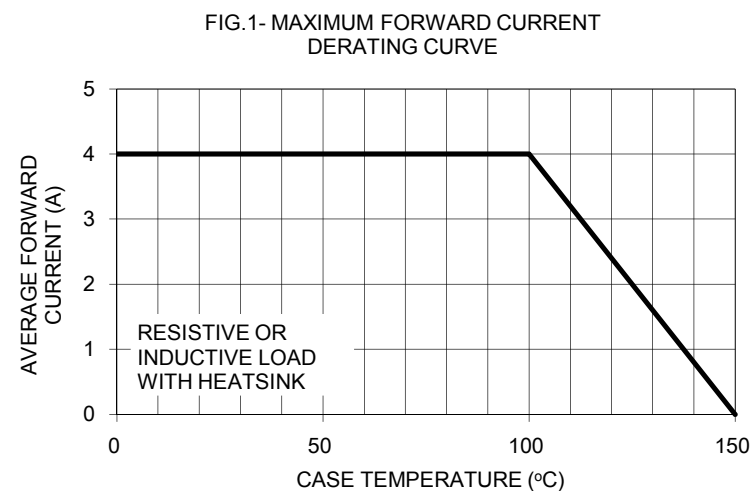


FIG. 5- TYPICAL JUNCTION CAPACITANCE

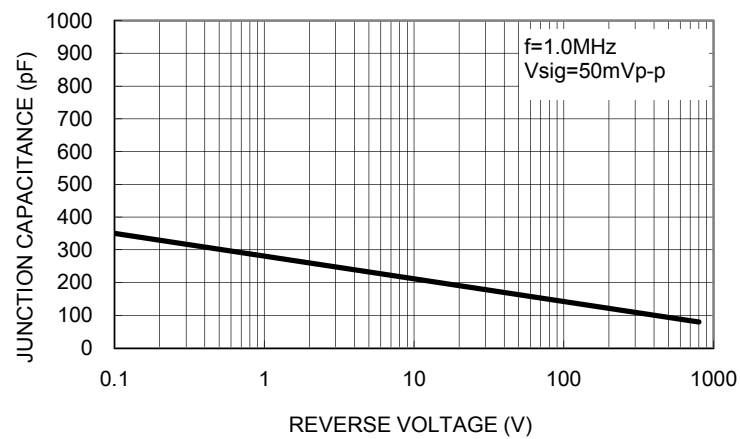
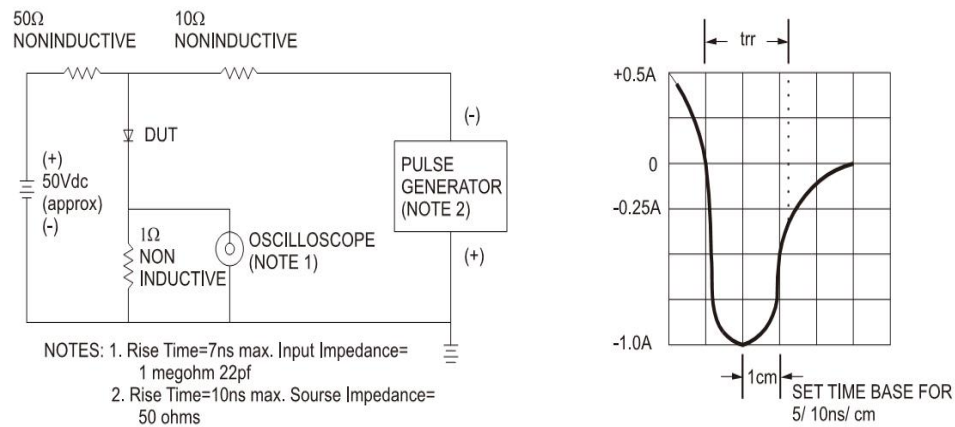
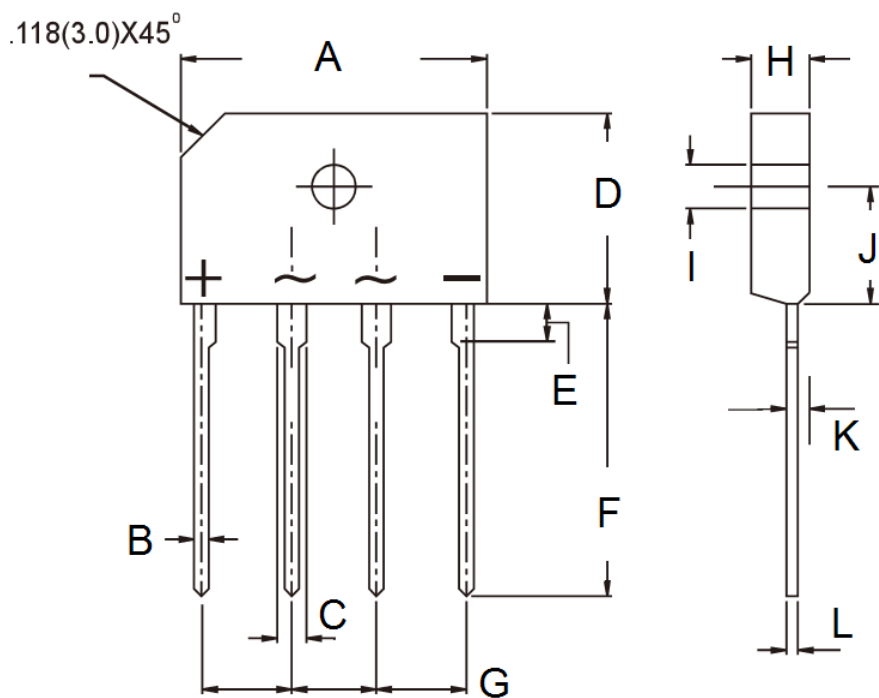


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

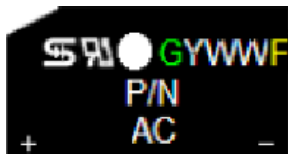


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	24.70	25.30	0.972	0.996
B	0.90	1.10	0.035	0.043
C	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
H	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
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