

4A, 50V - 400V Glass Passivated Bridge Rectifiers

FEATURES

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

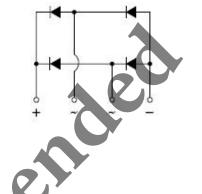
Part no. with suffix "H" means AEC-Q101 qualified

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)						
PARAMETER	SYMBOL	TSS4B TSS4B		TSS4B	TSS4B	UNIT
PARAIVIE I ER		01G	02G	03G	04G	ONII
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			Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150			А	
Rating for fusing (t<8.3ms)	I ² t	93			A ² s	
Maximum instantaneous forward voltage (Note 1) @ 4 A	V _F	0.98 1.3		1.3	V	
Maximum reverse current @ rated V _R T _J =25°C	I _R	5 500		μA		
Maximum reverse recovery time (Note 2)	t _{rr}	35 50		50	ns	
Typical thermal resistance	$R_{ heta JC}$	5.5		°C/W		
Operating junction temperature range	T _J	- 55 to +150		°C		
Storage temperature range	T _{STG}	- 55 to +150 °C		°C		

Note 1: Pulse test with PW=300µs, 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.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING	
T004D0-0		C2		TS4B	20 / Tube	
TSS4B0xG (Note 1)	Н	X0	G	TS4B	Forming	
		D2		TS4B	20 / Tube	

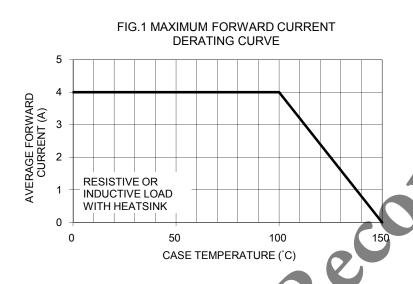
Note 1: "x" defines voltage from 50V (TSS4B01G) to 400V (TSS4B04G)

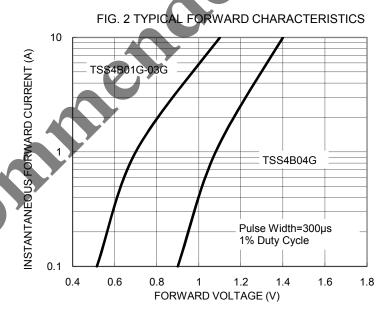
^{*:} Optional available

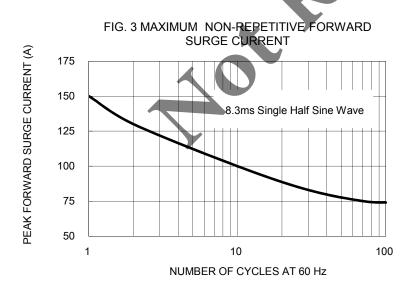
EXAMPLE						
PREFERRED P/N	PART NO. S		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
TSS4B01GHC2G	TSS4B01G	Н	C2	G	AEC-Q101 qualified Green compound	

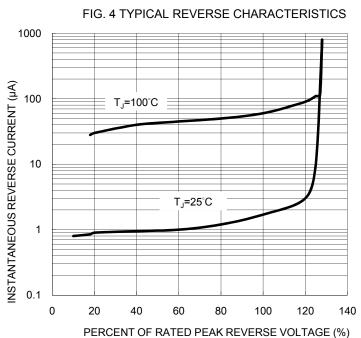
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







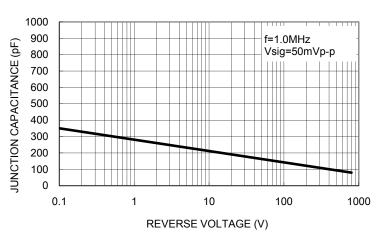


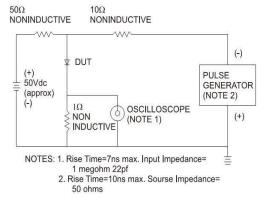
Version: E15

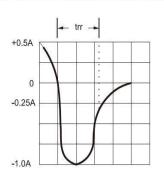


FIG. 5 TYPICAL JUNCTION CAPACITANCE

FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

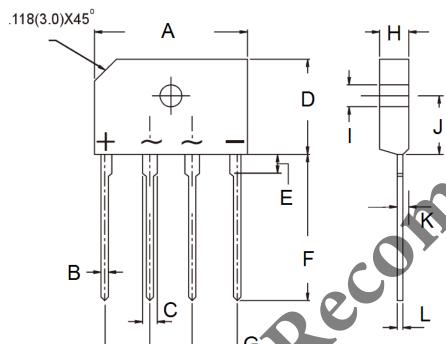






PACKAGE OUTLINE DIMENSIONS

IS4E



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	
D	14.70	15.30	0.579	0.602	
E	3.96	4.37	0.156	0.172	
Ē	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	
L	0.55	0.75	0.022	0.030	

MARKING DIAGRAM



- P/N = Specific Device Code G
 - = Green Compound
 - = Date Code
 - = Factory Code





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