



Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- Typical IR less than $0.1 \mu A$
- High surge current capability
- 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









MECHANICAL DATA

Case: TS4K

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:** 8.17 in-lbs maximum

Weight: 4 g (approximately)

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	TS10K40	TS10K60	TS10K80	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	V	
Maximum RMS voltage	V_{RMS}	280	420	560	V	
Maximum DC blocking voltage	V _{DC}	400	600	800	V	
Maximum average forward rectified current	I _{F(AV)}	10			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)	l ² t	93			A ² s	
Maximum instantaneous forward voltage $I_F = 5 \text{ A}$ (Note 1) $I_F = 10 \text{ A}$	V _F	1.0 1.1			V	
	I _R	10 500		μA		
Typical thermal resistance	$R_{ heta JC}$		2.3		°C/W	
Operating junction temperature range	T _J	- 55 to +150			οС	
Storage temperature range	T _{STG}	- 55 to +150			οС	

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

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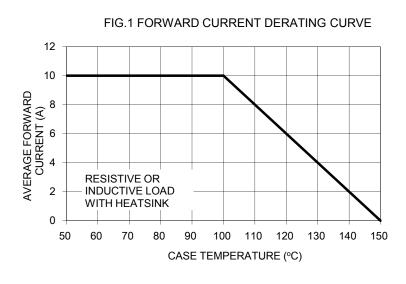
ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
		CODE		
TS10Kxx	D3	Suffix "G"	TS4K	20 / TUBE
(Note 1)	X0	SuillX G	TS4K	Forming

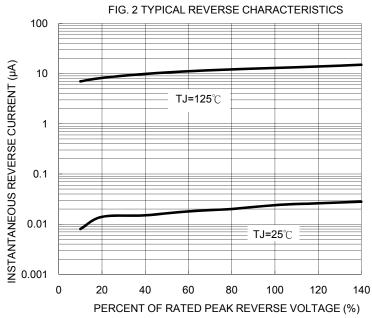
Note 1: "xx" defines voltage from 400V (TS10K40) to 800V (TS10K80)

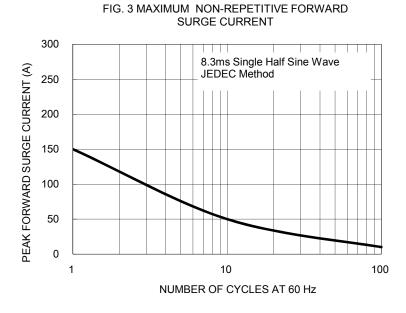
EXAMPLE					
PREFERRED P/N PART NO.		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
TS10K80 D3	TS10K80	D3			
TS10K80 D3G	TS10K80	D3	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^{\circ}$ C unless otherwise noted)







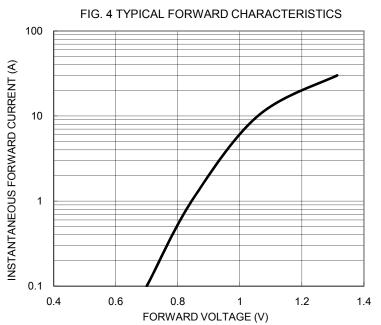
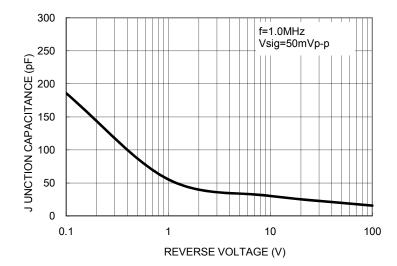
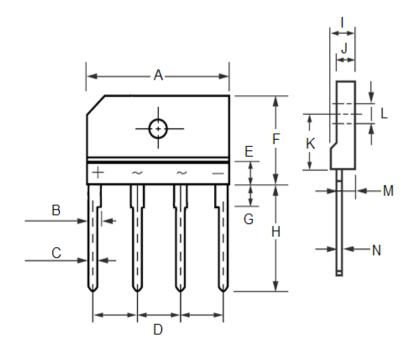




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
Α	24.70	25.30	0.972	0.996	
В	2.00	2.30	0.079	0.091	
С	0.90	1.10	0.035	0.043	
D	7.30	7.70	0.287	0.303	
Е	3.00	5.00	0.118	0.197	
F	14.70	15.30	0.579	0.602	
G	3.30	3.70	0.130	0.146	
Н	17.00	18.00	0.669	0.709	
- 1	4.40	4.80	0.173	0.189	
J	3.40	3.80	0.134	0.150	
K	9.30	9.60	0.366	0.378	
L	3.10	3.60	0.122	0.142	
М	3.10	3.40	0.122	0.134	
N	0.50	0.70	0.020	0.028	

MARKING DIAGRAM

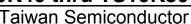


P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code

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