



Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- Typical IR less than 0.1µA
- 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





TS4K



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)

PARAMETER	SYMBOL	TS4K40	TS4K60	TS4K80	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)}	4		Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120		А	
Rating for fusing (t<8.3ms)	l ² t		60		A ² s
Maximum instantaneous forward voltage $I_F = 2 A$ (Note 1) $I_F = 4 A$	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	10 500			μΑ
Typical thermal resistance	$R_{ heta JC}$		5.5		°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		
TS4Kxx	D3	Suffix "G"	TS4K	20 / TUBE
(Note 1)	X0	Sullix G	TS4K	Forming

Note 1: "xx" defines voltage from 400V (TS4K40) to 800V (TS4K80)

EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
TS4K80 D3	TS4K80	D3			
TS4K80 D3G	TS4K80	D3	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

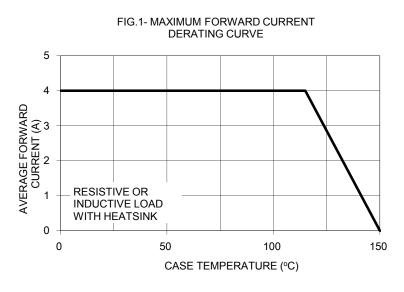


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

100

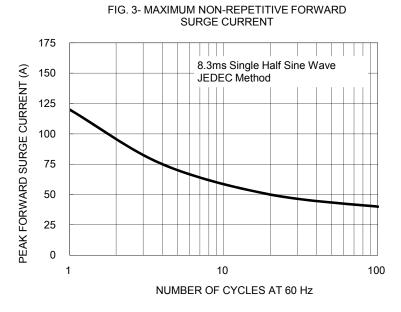
TJ=125°C

TJ=25°C

0.001

0 20 40 60 80 100 120 140

PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



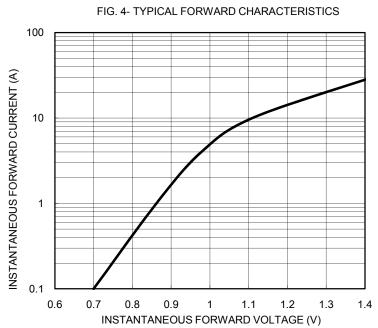
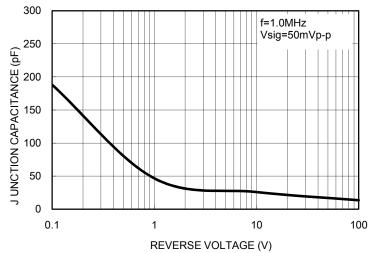
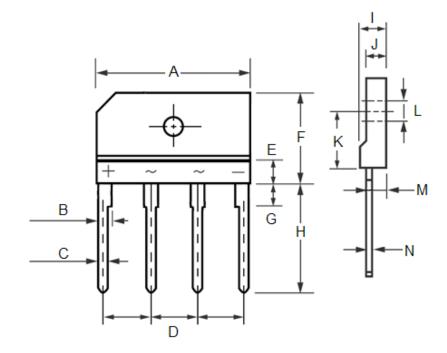




FIG. 5- TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	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	
I	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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