



# **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





TS-6P



# **MECHANICAL DATA**

Case: TS-6P

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (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: 7.15 g (approximately)

	CYMADO	TS15P	TS15P	TS15P	TS15P	TS15P	TS15P	TS15P	
PARAMETER	SYMBOL	01G	02G	03G	04G	05G	06G	07G	UNIT
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 <sub>F(AV)</sub>	15						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	240						Α	
Rating for fusing (t<8.3ms)	l <sup>2</sup> t				239				A <sup>2</sup> s
Maximum instantaneous forward voltage (Note 1) @ 7.5 A @ 15 A	V <sub>F</sub>				1.0 1.1				V
Maximum DC reverse current $T_J$ =25°Cat rated DC blocking voltage $T_J$ =125°C	I <sub>R</sub>	10 500				μA			
Typical thermal resistance	$R_{ heta JC}$	0.8						°C/W	
Operating junction temperature range	T <sub>J</sub>	- 55 to +150						°C	
Storage temperature range	T <sub>STG</sub>	- 55 to +150						°C	

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

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ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING		
		SUFFIX				
T045D0 0	C2		TS-6P	15 / TUBE		
TS15P0xG (Note 1)	X0	G	TS-6P	Forming		
	D2		TS-6P	15 / TUBE (Auto)		

Note 1: "x" defines voltage from 50V (TS15P01G) to 1000V (TS15P07G)

EXAMPLE							
PREFERRED PART NO		PACKING CODE	PACKING CODE	DESCRIPTION			
PART NO.			SUFFIX				
TS15P07G C2	TS15P07G	C2					
TS15P07G C2G	TS15P07G	C2	G	Green compound			

#### **RATINGS AND CHARACTERISTICS CURVES**

(T<sub>A</sub>=25°C unless otherwise noted)

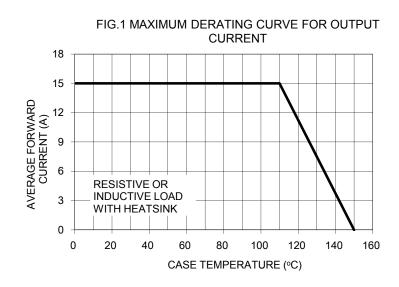
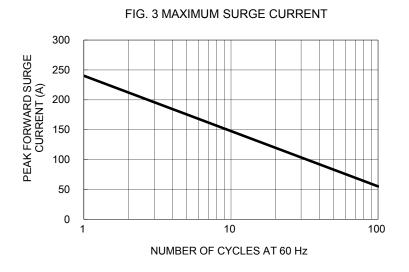
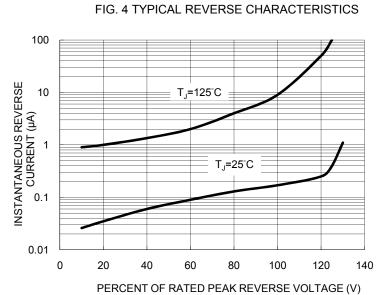


FIG. 2 TYPICAL FORWARD CHARACTERISTICS 1000 INSTANTANEOUS FORWARD CURRENT (A) 100 10 0.1 0.4 0.6 8.0 1.0 1.2 1.4 1.6 1.8 2.0 INSTANTANEOUS FORWARD VOLTAGE (A)

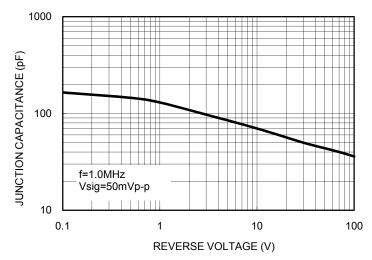




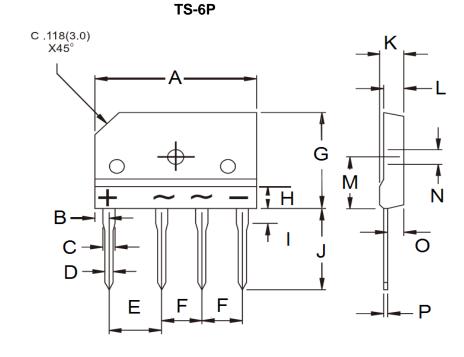
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FIG. 5 TYPICAL JUNCTION CAPACITANCE



# PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min Max		Min	Max		
Α	29.70	30.30	1.169	1.193		
В	2.30	2.70	0.091	0.106		
С	2.00	2.40	0.079	0.094		
D	0.90	1.10	0.035	0.043		
Е	9.80	10.20	0.386	0.402		
F	7.30	7.70	0.287	0.303		
G	19.70	20.30	0.776	0.799		
Н	-	4.80	1	0.189		
I	3.80	4.20	0.150	0.165		
J	17.00	18.00	0.669	0.709		
K	4.40	4.80	0.173	0.189		
L	3.40	3.80	0.134	0.150		
М	10.80	11.20	0.425	0.441		
N	3.10	3.40	0.122	0.134		
0	2.50	2.90	0.098	0.114		
Р	0.65	0.75	0.026	0.030		

# **MARKING DIAGRAM**



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code

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