

15A, 600V - 800V Low VF- Low Noise Single-Phase Single In-Line Bridge Rectifier

FEATURES

- Low Forward drop enhance the efficiency
- Oxide Planar chip junction
- 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



General purpose use in AC/DC bridge full wave rectification. Especially for high efficiency desktop, telecom, server, white goods, home appliances, TV game console SMPS.

MECHANICAL DATA

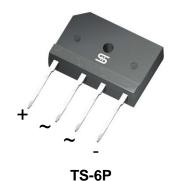
Case: TS-6P

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

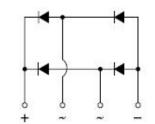
Mounting torque: Maximum 0.8Nm; 0.5Nm is recommended

Weight: 7.15g (approximately)









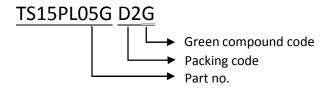
MAXIMUM RATINGS AND ELECTRICAL CHAR	RACTERISTIC	CS (T _A =25°C unless oth	erwise noted)	
PARAMETER	SYMBOL	TS15PL05G	TS15PL06G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	V
Maximum RMS voltage	V _{RMS}	420	560	V
Maximum DC blocking voltage	V _{DC}	600	800	V
Maximum average forward rectified current	I _{F(AV)}	15		А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200		А
Rating for fusing (t<8.3ms)	l ² t	166		A ² s
Peak forward surge current, 1 ms single half sine-wave superimposed on rated load	I _{FSM}	630		А
Maximum instantaneous forward voltage (Note 1) I _F = 7.5A	V _F	0.90	0.93	V
Maximum DC reverse current T_J =25°C at rated DC blocking voltage T_J =125°C	I _R	5 150		μА
Typical thermal resistance	$R_{ heta JC}$	2		°C/W
Operating junction temperature range	TJ	- 55 to +150		°C
Storage temperature range	T _{STG}	- 55 to +150 °C		°C

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

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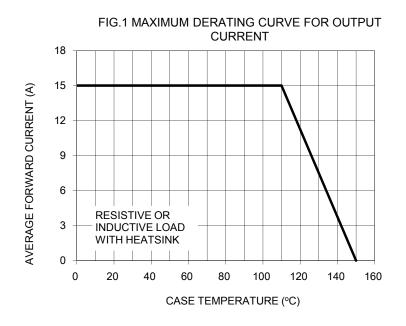


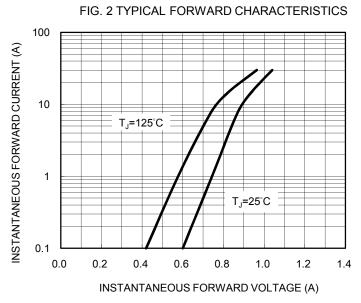
ORDER INFORMATION (EXAMPLE)

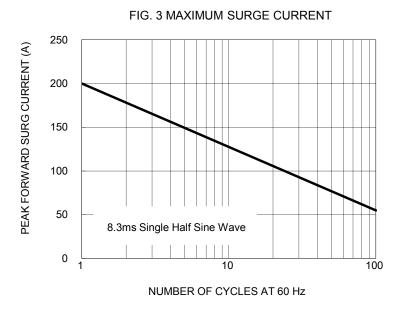


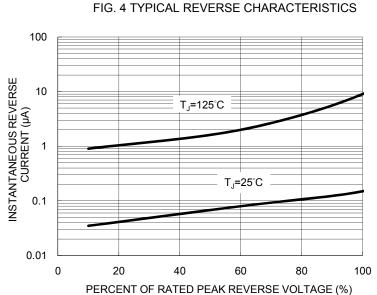
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





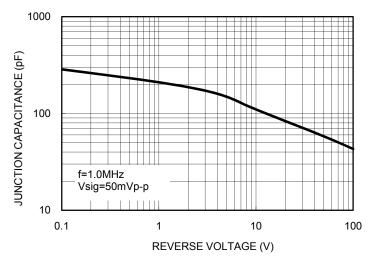




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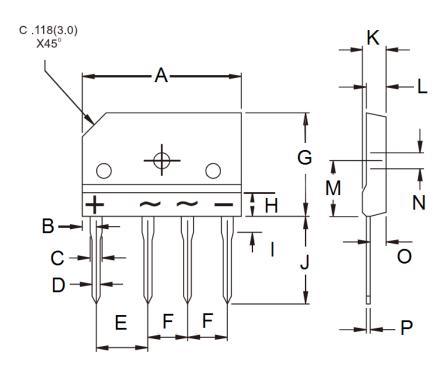


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

TS-6P



DIM.	Unit (mm)		Unit (inch)		
	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	
E	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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