

25A, 600V - 1000V Glass Passivated Bridge Rectifier

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- · High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC

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- Switching mode power supply (SMPS)
- Adapters
- TV
- Monitor

MECHANICAL DATA

• Case: TS-6P

Molding compound meets UL 94V-0 flammability rating
Terminal: Matte tin plated leads, solderable per J-STD-002

· Polarity: As marked

Mounting torque: 0.92 N⋅m maximum

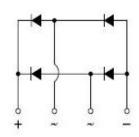
• Weight: 6.5 g (approximately)

KEY PARAMETERS					
PARAMETER	VALUE	UNIT			
I _F	25	Α			
V_{RRM}	600 - 1000	V			
I _{FSM}	350	Α			
T_{JMAX}	150 °C				
Package	TS-6P				
Configuration	Quad				





TS-6P



ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise noted)						
PARAMETER	SYMBOL	TS25P 05G-K	TS25P 06G-K	TS25P 07G-K	UNIT	
Marking code on the device		TS25P 05G	TS25P 06G	TS25P 07G		
Repetitive peak reverse voltage	V_{RRM}	600	800	1000	V	
Reverse voltage, total rms value	$V_{R(RMS)}$	420	560	700	V	
Forward current	I _F	25		А		
Surge peak forward current, 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	350			А	
Rating of fusing (t<8.3ms)	l ² t	508			A ² s	
Junction temperature	TJ	- 55 to +150			°C	
Storage temperature	T _{STG}	- 55 to +150 °c			°C	



THERMAL PERFORMANCE						
PARAMETER	SYMBOL	TYP.	UNIT			
Junction-to-case thermal resistance	R _{eJC}	1.3	°C/W			

Thermal Performance Note: Ideal heat sink

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)						
PARAMETER	CONDITIONS	SYMBOL	TYP.	MAX.	UNIT	
	I _F = 12.5A, T _J = 25°C	.,	-	1.1	V	
Forward voltage per diode (1)	I _F = 12.5A, T _J = 125°C	V_F	-	1.0	V	
	T _A = 25°C		-	10	μA	
Reverse current @ rated V _R per diode ⁽²⁾	T _A = 125°C	I _R	-	500	μA	
Junction capacitance	1 MHz, V _R =4.0V	CJ	119	-	pF	

Notes:

- 1. Pulse test with PW=0.3 ms
- 2. Pulse test with PW=30 ms

ORDERING INFORMATION					
ORDERING CODE	PACKAGE	PACKING			
TS25P05G-K C7	TS-6P	15 / TUBE			
TS25P06G-K C7	TS-6P	15 / TUBE			
TS25P07G-K C7	TS-6P	15 / TUBE			



CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

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Fig.2 Typical Junction Capacitance

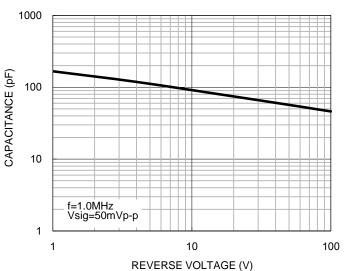


Fig.3 Typical Reverse Characteristics

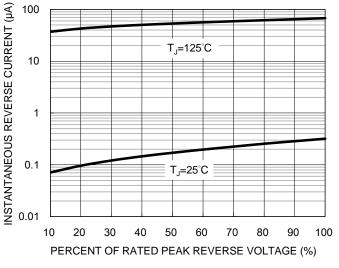
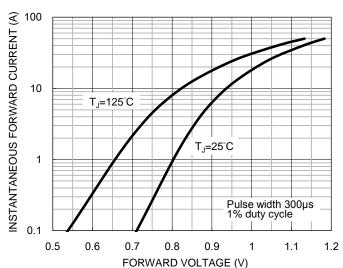


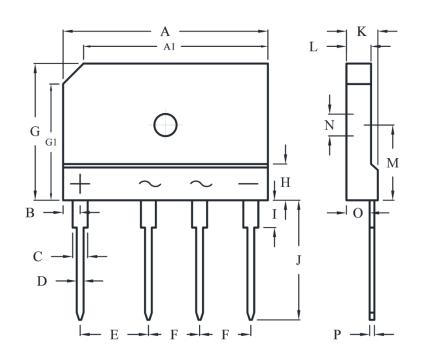
Fig.4 Typical Forward Characteristics





PACKAGE OUTLINE DIMENSIONS

TS-6P



DIM	Unit (mm)		Unit (inch)		
DIN	Min	Max	Min	Max	
Α	29.70	30.30	1.169	1.193	
A1	26.50	27.50	1.043	1.083	
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	
G1	16.50	17.50	0.650	0.689	
Н	4.80	5.80	0.189	0.228	
ı	3.80	4.20	0.150	0.165	
J	17.00	18.00	0.669	0.709	
К	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	3.10	3.70	0.122	0.146	
Р	0.60	0.80	0.024	0.031	

MARKING DIAGRAM



P/N = Marking Code = Date Code YWW = Factory Code



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