



35A, 600V - 1000V Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- Typical I_{R} less than $0.1 \mu \text{A}$
- 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



TS-6P





MECHANICAL DATA

Case: TS-6P

Molding compound, UL flammability classification rating 94V-0

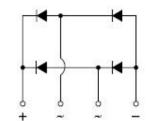
Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body **Mounting torque:** 8.17 in-lbs maximum

Weight: 7.15 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	TS35P05G	TS35P06G	TS35P07G	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	1000	V	
Maximum RMS voltage	V_{RMS}	420	560	700	V	
Maximum DC blocking voltage	V_{DC}	600	800	1000	V	
Maximum average forward rectified current	I _{F(AV)}	35			Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	350			А	
Rating for fusing (t<8.3ms)	l ² t	508			A ² s	
Maximum instantaneous forward voltage (Note 1) @ 17.5 A	V _F	1.1		V		
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R	10 500		μA		
Typical thermal resistance (Note 2)	$R_{\theta JC}$	0.6		°C/W		
Operating junction temperature range	TJ	- 55 to +150			°C	
Storage temperature range	T _{STG}	- 55 to +150			°C	

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

Note 2: With idea heatsink



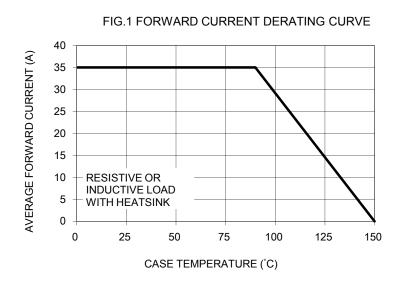
ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX (*)	PACKAGE	PACKING	
TS35P0xG (Note 1)	Н	C2	G	TS-6P	15 / TUBE	
		X0		TS-6P	Forming	
		D2		TS-6P	15 / TUBE (Auto)	

Note 1: "x" defines voltage from 600V (TS35P05G) to 1000V (TS35P07G)

EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX PACKING CODE		PACKING CODE DESCRIPTIO	
TS35P07GHC2G	TS35P07G	Τ	C2	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



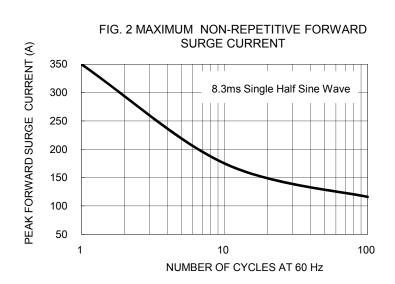


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

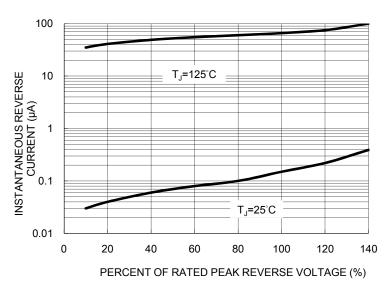


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

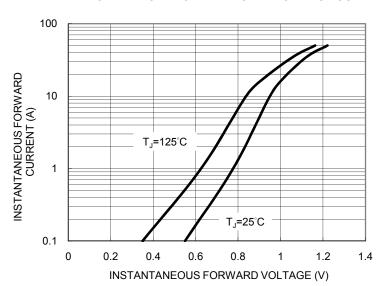
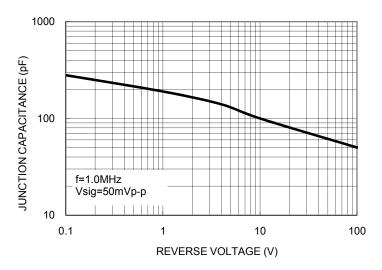
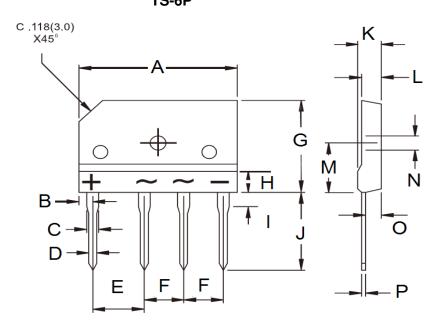




FIG. 5 TYPICAL JUNCTION CAPACITANCE



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	
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	
Η	ı	4.80	ı	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	
Ш	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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