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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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40A, 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







MECHANICAL DATA

Case: TS-6P

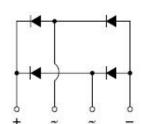
Molding compound, UL flammability classification rating 94V-0

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)



TS-6P

		MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
SYMBOL	TS40P05G	TS40P06G	TS40P07G	Unit				
V_{RRM}	600	800	1000	V				
V_{RMS}	420	560	700	V				
V _{DC}	600	800	1000	V				
I _{F(AV)}	40			Α				
I _{FSM}	400		А					
l ² t	664			A ² s				
V _F	1.1			V				
I _R	10 500		μA					
$R_{ heta JC}$	0.57			°C/W				
T _J	- 55 to +150		°C					
T _{STG}	- 55 to +150		°C					
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{F(AV)} \\ \\ I_{FSM} \\ I^2t \\ V_F \\ \\ I_R \\ \\ R_{\theta JC} \\ T_J \end{array}$	V _{RRM} 600 V _{RMS} 420 V _{DC} 600 I _{F(AV)} I _{FSM} I ² t V _F I _R R _{θJC} T _J	V _{RRM} 600 800 V _{RMS} 420 560 V _{DC} 600 800 I _{F(AV)} 40 I _{FSM} 400 I ² t 664 V _F 1.1 I _R 10 500 R _{BJC} T _J -55 to +150	V _{RRM} 600 800 1000 V _{RMS} 420 560 700 V _{DC} 600 800 1000 I _{F(AV)} 40 400 I ² t 664 664 V _F 1.1 10 I _R 500 500 R _{θJC} 0.57 - 55 to +150				

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



ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING	
TS40P0xG (Note 1)	Н	C2	G	TS-6P	15 / TUBE	
		X0		TS-6P	Forming	
		D2		TS-6P	15 / TUBE (Auto)	

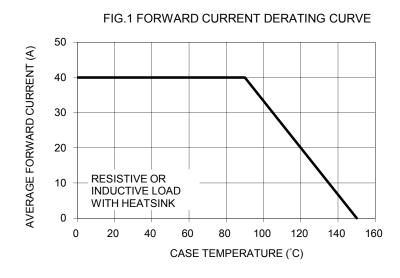
Note 1: "x" defines voltage from 600V (TS40P05G) to 1000V (TS40P07G)

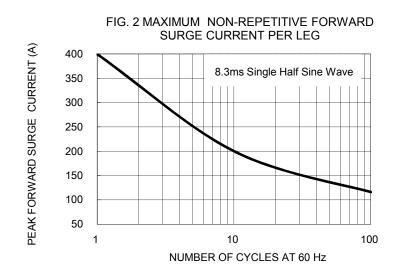
^{*:} Optional available

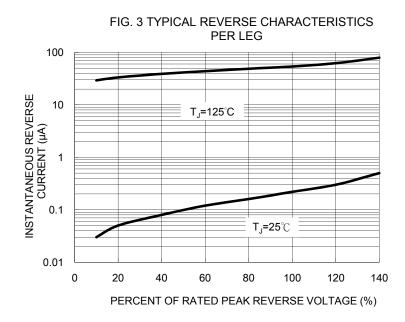
EXAMPLE					
PREFERRED PART NO.	PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
TS40P07GHC2G	TS40P07G	Н	C2	G	AEC-Q101 qualified Green compound

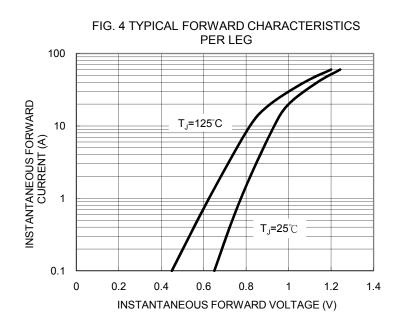
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

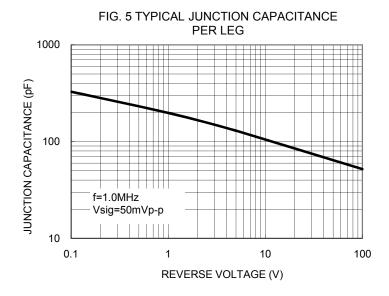




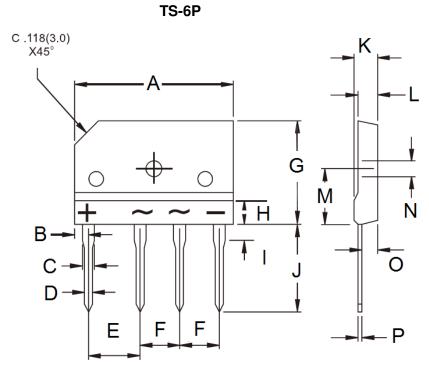








PACKAGE OUTLINE DIMENSIONS



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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