



# **AMERICAN ZETTLER, INC.**

75 COLUMBIA • ALISO VIEJO, CA 92656 • 949-831-5000 • FAX 949-831-8642

## **For Immediate Release**

October 27, 2005

# **SG-34F Series** **40 – 80 Amp “Hockey Puck” Solid State Relay**

**Contact:** Fred Harmon  
Vice President, Sales & Marketing  
(949) 831-5000

**Aliso Viejo, California** – American Zettler Inc. introduces the latest series addition to our “Hockey Puck” style solid state relays. The SG-34F has models that can switch loads ranging from 40A to 80A, at voltages up to 530 Vac. The SG-34F has model options of AC or DC inputs, and zero-cross or random-phase turn on. Features include built-in snubbers, optional LED indicators and a 1200 Vpk blocking capability. The SG-34F has a minimum off-state (dv/dt) capability of at least 500 V/ $\mu$ s, thanks to the superior back-to-back SCR output circuitry. Additional features include: high surge capacity and a 4000 Vrms photo-isolation between input and output. The SG-34F Series is manufactured in our ISO9001 factory for optimum performance and reliability.

Pricing starts at \$18.41 at 10 pieces.

For application and product information contact:

Fred Harmon  
Vice President, Sales & Marketing  
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75 Columbia  
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## RELAY PROFILE

**Relay**

**SG-34F Series**

**Relay Description**

**“Hockey Puck” Solid State Relay with  
paired SCR AC output**

**Features/Benefits**

**Back-to-back SCR AC output  
4000 Vrms Photo Isolation  
1200 Vpk Blocking Voltage  
Built-in snubbers  
High Surge Capability**

**Relay Applications**

**Motor-speed controls, Lighting controls,  
Heating controls, Gaming equipment,  
Medical equipment**

**Relay Availability**

**Sample Quantity available  
Production 10 weeks**

**Relay Price**

**see attached documents**

**Relay Cross Reference**

**see attached documents**



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## **CROSS REFERENCE**

Crouzet	8414
Crydom	CW24
Tyco	SSR

# SG-34F

## “HOCKY PUCK” SOLID STATE RELAY 40 THRU 80 AMPS 48 TO 530 VRMS

### FEATURES

- Photo isolation
- Up to 1200V blocking voltage
- Both zero cross or random turn-on
- High surge capability
- Built-in snubber
- UL, CUR file E43203
- SCR Output Circuitry



### INPUT

Type	DC Input	AC Input
Control Voltage Range	3 to 32 VDC	90 to 280 VAC
Turn On Voltage	3 VDC max.	90 VAC max.
Turn Off Voltage	1 VDC min.	10 VAC min.
Max. Input Current	25 mA at 32 VDC	-
Max. Reverse Voltage	-32 VDC	-

### OUTPUT

Type	D-240	D-380	D-480
Output Voltage Range	48 to 280 VAC	48 to 400 VAC	48 to 530 VAC
Blocking Voltage	600 Vpk	800 Vpk	1200 Vpk
Max. Leakage Current (off)	5 mA	5 mA	5 mA
Max. Voltage Drop (at rated current)	1.7 VRMS		
Max. Turn-On Time	Random Turn On (DC input): 1 ms Zero Cross Turn On (DC input): 1/2 cycles + 1 ms AC Input: 20 ms		
Max. Turn-Off Time	DC Input: 1/2 cycle + 1 ms AC Input: 40 ms		
Min. Off-State (dv/dt)	500 V/us		

### GENERAL

Dielectric Strength	4000 Vrms min. (at 50/60 Hz, 1 min.)
Insulation Resistance	1000 Min. (at 500 VDC)
Max. Capacitance (in/out)	8 pf
Ambient Temperature	Operating: -30°C (-22°F) to 80°C (176°F) Storage: -30°C (122°F) to 100°C (212°F)
	Panel Mount
Termination	Screw
Weight	88g



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10/17/05W

# SG-34F

## RELAY ORDERING DATA

SG-34F	D	240	A	40	Z	S	L
MODEL	INPUT VOLTAGE D: 3 TO 32 Vdc A: 90 to 280Vac*	OPERATING VOLTAGE RANGE 240: 48 TO 280 Vac 380: 48 to 400 Vac 480: 48 to 530 Vac	LOAD TYPE A: AC LOAD	LOAD CURRENT 40: 40A 50: 50A 60: 60A 70: 70A* 80: 80A*	ZERO CROSS OR RANDOM Z: Zero cross turn on P: Random turn on	OUTPUT DEVICE S: SCR	LED INDICATOR NIL: no LED L: with LED (not for AC input type)

\*UL pending

## MECHANICAL DATA

<p><b>Outline Dimensions</b></p> <p>2-M.118 [M3.0] 2-M.157 [M4.0] .795Max [20.2] .902Max [22.9] 1.870 [47.5] 2-Ø.177 [Ø4.5] 1.799MAX [45.7] 1.098 [27.9] 1.743 [44.26] .323 [8.2] 2.299MAX [58.4] 1.00 [25.4] .449 [11.4]</p>	<p><b>Mounting</b></p> <p>1.870 [47.5]</p>
	<p><b>Wiring Diagram</b></p> <p>Load power supply Load LOAD 1 2 INPUT (-) 4 (-) (+) 3 input control signal</p>

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "

### INSTALLATION

- When mounting the relays side by side, provide a space equivalent to the width of a single SSR between two adjacent SSRs. Otherwise, reduce the load current flow to 1/2 to 1/3 of the rated current.
- When mounting relays on heat sink surface, first apply a heat conductive grease to the metal back surface of the SSR. Press the SSR firmly onto the heat sink to ensure a good seal. Screw the SSR down to the heat sink.
- Next, wire the screw terminals and securely tighten the screws.

### PRECAUTIONS

- Before connecting a load that generates a high surge current, such as a lamp load to the SSR, make sure that the SSR can withstand the surge current of the load.
- The product data sheet shows the non-repetitive peak value of the surge current that flows through the SSR. Normally, use 1/2 of the non-repetitive peak surge current as the standard value. If a surge current exceeding that value is expected, connect a quick-blowing fuse to protect the SSR.



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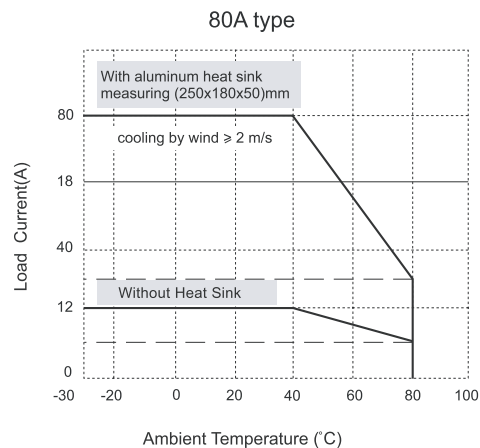
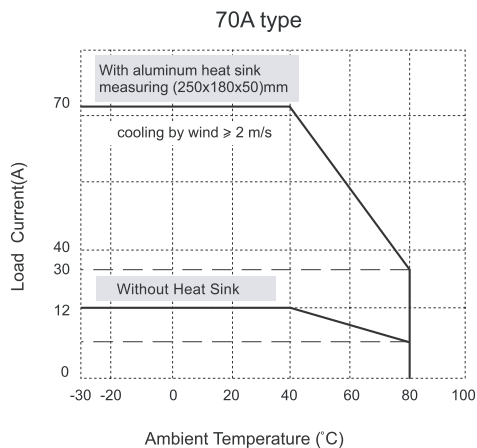
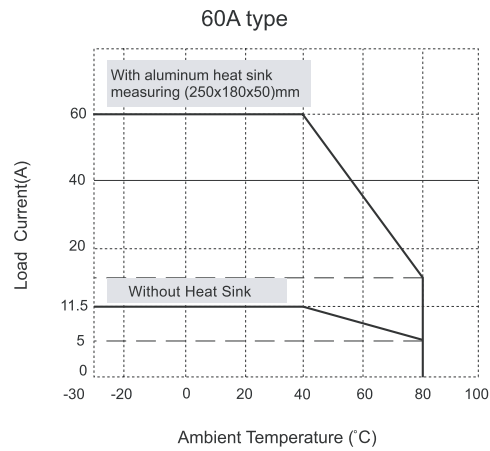
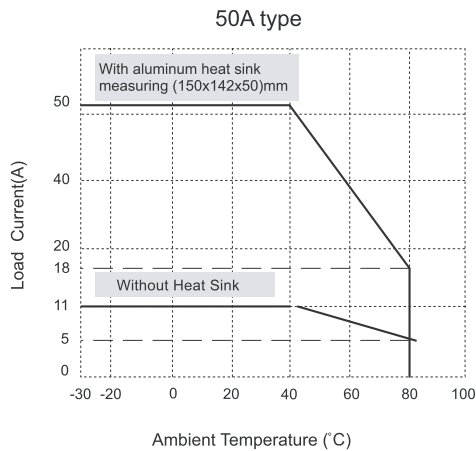
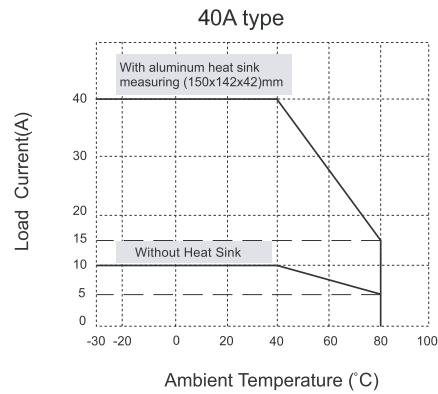
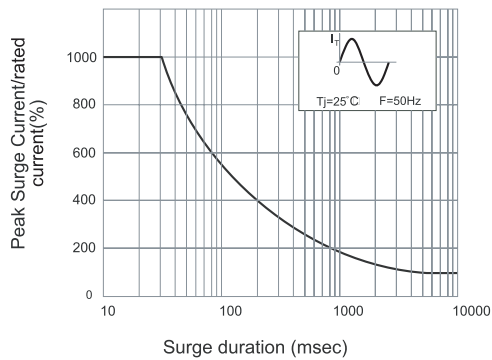
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# SG-34F

## CHARACTERISTIC CURVES



**AMERICAN ZETTLER, INC.**

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OEM Price List - Internal

SERIES SG-34F

27-October-05

Std Pkg	Part Number	'1-49'	'50'	'100'	'500'	1K'	LeadTime
25	SG-34FA-240A40PS	24.21	23.00	21.85	20.76	19.76	8-10 weeks
25	SG-34FA-240A40PS-L	24.26	23.05	21.89	20.80	19.80	8-10 weeks
25	SG-34FA-240A40ZS	24.21	23.00	21.85	20.76	19.76	8-10 weeks
25	SG-34FA-240A40ZS-L	24.26	23.05	21.89	20.80	19.80	8-10 weeks
25	SG-34FA-240A50PS	29.75	28.26	26.85	25.51	24.28	8-10 weeks
25	SG-34FA-240A50PS-L	29.80	28.31	26.89	25.55	24.32	8-10 weeks
25	SG-34FA-240A50ZS	29.75	28.26	26.85	25.51	24.28	8-10 weeks
25	SG-34FA-240A50ZS-L	29.80	28.31	26.89	25.55	24.32	8-10 weeks
25	SG-34FA-240A60PS	41.06	39.01	37.06	35.20	33.51	8-10 weeks
25	SG-34FA-240A60PS-L	41.12	39.06	37.11	35.25	33.56	8-10 weeks
25	SG-34FA-240A60ZS	41.06	39.01	37.06	35.20	33.51	8-10 weeks
25	SG-34FA-240A60ZS-L	41.12	39.06	37.11	35.25	33.56	8-10 weeks
25	SG-34FA-240A70PS	50.09	47.58	45.21	42.94	40.88	8-10 weeks
25	SG-34FA-240A70PS-L	50.14	47.63	45.25	42.99	40.92	8-10 weeks
25	SG-34FA-240A70ZS	50.09	47.58	45.21	42.94	40.88	8-10 weeks
25	SG-34FA-240A70ZS-L	50.14	47.63	45.25	42.99	40.92	8-10 weeks
25	SG-34FA-240A80PS	62.20	59.10	56.14	53.33	50.77	8-10 weeks
25	SG-34FA-240A80PS-L	62.26	59.15	56.20	53.39	50.82	8-10 weeks
25	SG-34FA-240A80ZS	62.20	59.10	56.14	53.33	50.77	8-10 weeks
25	SG-34FA-240A80ZS-L	62.26	59.15	56.20	53.39	50.82	8-10 weeks
25	SG-34FA-380A40PS	24.52	23.29	22.13	21.02	20.01	8-10 weeks
25	SG-34FA-380A40PS-L	24.57	23.34	22.17	21.06	20.05	8-10 weeks
25	SG-34FA-380A40ZS	24.52	23.29	22.13	21.02	20.01	8-10 weeks
25	SG-34FA-380A40ZS-L	24.57	23.34	22.17	21.06	20.05	8-10 weeks
25	SG-34FA-380A50PS	30.01	28.51	27.08	25.73	24.49	8-10 weeks
25	SG-34FA-380A50PS-L	30.05	28.55	27.13	25.77	24.53	8-10 weeks
25	SG-34FA-380A50ZS	30.01	28.51	27.08	25.73	24.49	8-10 weeks
25	SG-34FA-380A50ZS-L	30.05	28.55	27.13	25.77	24.53	8-10 weeks
25	SG-34FA-380A60PS	41.35	39.29	37.32	35.45	33.75	8-10 weeks
25	SG-34FA-380A60PS-L	41.40	39.33	37.36	35.50	33.79	8-10 weeks
25	SG-34FA-380A60ZS	41.35	39.29	37.32	35.45	33.75	8-10 weeks
25	SG-34FA-380A60ZS-L	41.40	39.33	37.36	35.50	33.79	8-10 weeks
25	SG-34FA-380A70PS	50.33	47.82	45.43	43.15	41.08	8-10 weeks
25	SG-34FA-380A70PS-L	50.38	47.86	45.47	43.20	41.12	8-10 weeks
25	SG-34FA-380A70ZS	50.33	47.82	45.43	43.15	41.08	8-10 weeks
25	SG-34FA-380A70ZS-L	50.38	47.86	45.47	43.20	41.12	8-10 weeks
25	SG-34FA-380A80PS	62.46	59.34	56.37	53.55	50.98	8-10 weeks
25	SG-34FA-380A80PS-L	62.55	59.42	56.45	53.63	51.05	8-10 weeks
25	SG-34FA-380A80ZS	62.46	59.34	56.37	53.55	50.98	8-10 weeks
25	SG-34FA-380A80ZS-L	62.55	59.42	56.45	53.63	51.05	8-10 weeks
25	SG-34FA-480A40PS	30.75	29.22	27.76	26.37	25.10	8-10 weeks
25	SG-34FA-480A40PS-L	30.80	29.26	27.80	26.41	25.14	8-10 weeks
25	SG-34FA-480A40ZS	30.75	29.22	27.76	26.37	25.10	8-10 weeks
25	SG-34FA-480A40ZS-L	30.80	29.26	27.80	26.41	25.14	8-10 weeks
25	SG-34FA-480A50PS	37.48	35.61	33.83	32.13	30.59	8-10 weeks
25	SG-34FA-480A50PS-L	37.54	35.66	33.88	32.19	30.64	8-10 weeks
25	SG-34FA-480A50ZS	37.48	35.61	33.83	32.13	30.59	8-10 weeks

25	SG-34FA-480A50ZS-L	37.54	35.66	33.88	32.19	30.64	8-10 weeks
25	SG-34FA-480A60PS	48.84	46.40	44.08	41.87	39.86	8-10 weeks
25	SG-34FA-480A60PS-L	48.89	46.44	44.12	41.91	39.90	8-10 weeks
25	SG-34FA-480A60ZS	48.84	46.40	44.08	41.87	39.86	8-10 weeks
25	SG-34FA-480A60ZS-L	48.89	46.44	44.12	41.91	39.90	8-10 weeks
25	SG-34FA-480A70PS	57.87	54.98	52.23	49.62	47.23	8-10 weeks
25	SG-34FA-480A70PS-L	57.95	55.06	52.30	49.69	47.30	8-10 weeks
25	SG-34FA-480A70ZS	57.87	54.98	52.23	49.62	47.23	8-10 weeks
25	SG-34FA-480A70ZS-L	57.95	55.06	52.30	49.69	47.30	8-10 weeks
25	SG-34FA-480A80PS	70.03	66.53	63.21	60.05	57.16	8-10 weeks
25	SG-34FA-480A80PS-L	70.12	66.62	63.28	60.12	57.23	8-10 weeks
25	SG-34FA-480A80ZS	70.03	66.53	63.21	60.05	57.16	8-10 weeks
25	SG-34FA-480A80ZS-L	70.12	66.62	63.28	60.12	57.23	8-10 weeks

25	SG-34FD-240A40PS	22.96	21.81	20.72	19.69	18.74	8-10 weeks
25	SG-34FD-240A40PS-L	23.01	21.86	20.77	19.73	18.78	8-10 weeks
25	SG-34FD-240A40ZS	22.96	21.81	20.72	19.69	18.74	8-10 weeks
25	SG-34FD-240A40ZS-L	23.01	21.86	20.77	19.73	18.78	8-10 weeks
25	SG-34FD-240A50PS	32.39	30.78	29.24	27.78	26.44	8-10 weeks
25	SG-34FD-240A50PS-L	32.47	30.85	29.30	27.84	26.50	8-10 weeks
25	SG-34FD-240A50ZS	32.39	30.78	29.24	27.78	26.44	8-10 weeks
25	SG-34FD-240A50ZS-L	32.47	30.85	29.30	27.84	26.50	8-10 weeks
25	SG-34FD-240A60PS	40.15	38.14	36.24	34.42	32.77	8-10 weeks
25	SG-34FD-240A60PS-L	40.15	38.14	36.24	34.42	32.77	8-10 weeks
25	SG-34FD-240A60ZS	40.06	38.06	36.16	34.35	32.70	8-10 weeks
25	SG-34FD-240A60ZS-L	40.15	38.14	36.24	34.42	32.77	8-10 weeks
25	SG-34FD-240A70PS	49.04	46.59	44.27	42.05	40.03	8-10 weeks
25	SG-34FD-240A70PS-L	49.13	46.68	44.34	42.13	40.10	8-10 weeks
25	SG-34FD-240A70ZS	49.04	46.59	44.27	42.05	40.03	8-10 weeks
25	SG-34FD-240A70ZS-L	49.13	46.68	44.34	42.13	40.10	8-10 weeks
25	SG-34FD-240A80PS	59.85	56.86	54.02	51.32	48.85	8-10 weeks
25	SG-34FD-240A80PS-L	59.92	56.93	54.08	51.38	48.91	8-10 weeks
25	SG-34FD-240A80ZS	59.85	56.86	54.02	51.32	48.85	8-10 weeks
25	SG-34FD-240A80ZS-L	59.92	56.93	54.08	51.38	48.91	8-10 weeks

25	SG-34FD-380A40PS	27.00	25.65	24.37	23.15	22.04	8-10 weeks
25	SG-34FD-380A40PS-L	27.05	25.70	24.42	23.20	22.08	8-10 weeks
25	SG-34FD-380A40ZS	27.00	25.65	24.37	23.15	22.04	8-10 weeks
25	SG-34FD-380A40ZS-L	27.05	25.70	24.42	23.20	22.08	8-10 weeks
25	SG-34FD-380A50PS	32.49	30.87	29.33	27.86	26.52	8-10 weeks
25	SG-34FD-380A50PS-L	32.54	30.92	29.37	27.90	26.56	8-10 weeks
25	SG-34FD-380A50ZS	32.49	30.87	29.33	27.86	26.52	8-10 weeks
25	SG-34FD-380A50ZS-L	32.54	30.92	29.37	27.90	26.56	8-10 weeks
25	SG-34FD-380A60PS	43.85	41.66	39.58	37.60	35.79	8-10 weeks
25	SG-34FD-380A60PS-L	43.90	41.71	39.62	37.64	35.83	8-10 weeks
25	SG-34FD-380A60ZS	43.85	41.66	39.58	37.60	35.79	8-10 weeks
25	SG-34FD-380A60ZS-L	43.90	41.71	39.62	37.64	35.83	8-10 weeks
25	SG-34FD-380A70PS	52.83	50.19	47.68	45.30	43.12	8-10 weeks
25	SG-34FD-380A70PS-L	52.88	50.24	47.73	45.34	43.16	8-10 weeks
25	SG-34FD-380A70ZS	52.83	50.19	47.68	45.30	43.12	8-10 weeks
25	SG-34FD-380A70ZS-L	52.88	50.24	47.73	45.34	43.16	8-10 weeks
25	SG-34FD-380A80PS	64.95	61.70	58.62	55.69	53.01	8-10 weeks
25	SG-34FD-380A80PS-L	65.05	61.80	58.71	55.77	53.09	8-10 weeks



25	SG-34FD-380A80ZS	64.95	61.70	58.62	55.69	53.01	8-10 weeks
25	SG-34FD-380A80ZS-L	65.05	61.80	58.71	55.77	53.09	8-10 weeks

25	SG-34FD-480A40PS	32.39	30.78	29.24	27.78	26.44	8-10 weeks
25	SG-34FD-480A40PS-L	32.47	30.85	29.30	27.84	26.50	8-10 weeks
25	SG-34FD-480A40ZS	32.39	30.78	29.24	27.78	26.44	8-10 weeks
25	SG-34FD-480A40ZS-L	32.47	30.85	29.30	27.84	26.50	8-10 weeks
25	SG-34FD-480A50PS	41.26	39.20	37.24	35.38	33.68	8-10 weeks
25	SG-34FD-480A50PS-L	41.35	39.29	37.32	35.45	33.75	8-10 weeks
25	SG-34FD-480A50ZS	41.26	39.20	37.24	35.38	33.68	8-10 weeks
25	SG-34FD-480A50ZS-L	41.35	39.29	37.32	35.45	33.75	8-10 weeks
25	SG-34FD-480A60PS	48.80	46.36	44.04	41.84	39.83	8-10 weeks
25	SG-34FD-480A60PS-L	48.89	46.44	44.12	41.91	39.90	8-10 weeks
25	SG-34FD-480A60ZS	48.80	46.36	44.04	41.84	39.83	8-10 weeks
25	SG-34FD-480A60ZS-L	48.89	46.44	44.12	41.91	39.90	8-10 weeks
25	SG-34FD-480A70PS	59.03	56.08	53.28	50.61	48.18	8-10 weeks
25	SG-34FD-480A70PS-L	59.12	56.16	53.35	50.69	48.25	8-10 weeks
25	SG-34FD-480A70ZS	59.03	56.08	53.28	50.61	48.18	8-10 weeks
25	SG-34FD-480A70ZS-L	59.12	56.16	53.35	50.69	48.25	8-10 weeks
25	SG-34FD-480A80PS	66.88	63.54	60.37	57.35	54.59	8-10 weeks
25	SG-34FD-480A80PS-L	66.97	63.62	60.44	57.42	54.66	8-10 weeks
25	SG-34FD-480A80ZS	66.88	63.54	60.37	57.35	54.59	8-10 weeks
25	SG-34FD-480A80ZS-L	66.97	63.62	60.44	57.42	54.66	8-10 weeks

Distributor Price List - Internal

SERIES SG-34F

27-October-05

Std Pkg	Disty Item	Part Number	'1-49'	'50'	'100'	'500'	1K'	Lead Time
25		SG-34FA-240A40PS	19.41	18.44	17.52	16.64	15.81	8-10 weeks
25		SG-34FA-240A40PS-L	19.45	18.48	17.55	16.67	15.84	8-10 weeks
25		SG-34FA-240A40ZS	19.41	18.44	17.52	16.64	15.81	8-10 weeks
25		SG-34FA-240A40ZS-L	19.45	18.48	17.55	16.67	15.84	8-10 weeks
25		SG-34FA-240A50PS	23.85	22.66	21.53	20.45	19.43	8-10 weeks
25		SG-34FA-240A50PS-L	23.89	22.70	21.56	20.48	19.46	8-10 weeks
25		SG-34FA-240A50ZS	23.85	22.66	21.53	20.45	19.43	8-10 weeks
25		SG-34FA-240A50ZS-L	23.89	22.70	21.56	20.48	19.46	8-10 weeks
25		SG-34FA-240A60PS	32.91	31.27	29.71	28.22	26.81	8-10 weeks
25		SG-34FA-240A60PS-L	32.96	31.32	29.75	28.26	26.85	8-10 weeks
25		SG-34FA-240A60ZS	32.91	31.27	29.71	28.22	26.81	8-10 weeks
25		SG-34FA-240A60ZS-L	32.96	31.32	29.75	28.26	26.85	8-10 weeks
25		SG-34FA-240A70PS	40.15	38.14	36.23	34.42	32.70	8-10 weeks
25		SG-34FA-240A70PS-L	40.19	38.19	36.28	34.46	32.74	8-10 weeks
25		SG-34FA-240A70ZS	40.15	38.14	36.23	34.42	32.70	8-10 weeks
25		SG-34FA-240A70ZS-L	40.19	38.19	36.28	34.46	32.74	8-10 weeks
25		SG-34FA-240A80PS	49.87	47.38	45.01	42.76	40.62	8-10 weeks
25		SG-34FA-240A80PS-L	49.91	47.41	45.04	42.79	40.65	8-10 weeks
25		SG-34FA-240A80ZS	49.87	47.38	45.01	42.76	40.62	8-10 weeks
25		SG-34FA-240A80ZS-L	49.91	47.41	45.04	42.79	40.65	8-10 weeks
25		SG-34FA-380A40PS	19.66	18.67	17.74	16.85	16.01	8-10 weeks
25		SG-34FA-380A40PS-L	19.69	18.71	17.77	16.88	16.04	8-10 weeks
25		SG-34FA-380A40ZS	19.66	18.67	17.74	16.85	16.01	8-10 weeks
25		SG-34FA-380A40ZS-L	19.69	18.71	17.77	16.88	16.04	8-10 weeks
25		SG-34FA-380A50PS	24.05	22.85	21.71	20.62	19.59	8-10 weeks
25		SG-34FA-380A50PS-L	24.09	22.88	21.74	20.65	19.62	8-10 weeks
25		SG-34FA-380A50ZS	24.05	22.85	21.71	20.62	19.59	8-10 weeks
25		SG-34FA-380A50ZS-L	24.09	22.88	21.74	20.65	19.62	8-10 weeks
25		SG-34FA-380A60PS	33.15	31.49	29.92	28.42	27.00	8-10 weeks
25		SG-34FA-380A60PS-L	33.18	31.53	29.95	28.45	27.03	8-10 weeks
25		SG-34FA-380A60ZS	33.15	31.49	29.92	28.42	27.00	8-10 weeks
25		SG-34FA-380A60ZS-L	33.18	31.53	29.95	28.45	27.03	8-10 weeks
25		SG-34FA-380A70PS	40.35	38.34	36.42	34.60	32.87	8-10 weeks
25		SG-34FA-380A70PS-L	40.39	38.37	36.45	34.63	32.90	8-10 weeks
25		SG-34FA-380A70ZS	40.35	38.34	36.42	34.60	32.87	8-10 weeks
25		SG-34FA-380A70ZS-L	40.39	38.37	36.45	34.63	32.90	8-10 weeks
25		SG-34FA-380A80PS	50.07	47.57	45.18	42.93	40.78	8-10 weeks
25		SG-34FA-380A80PS-L	50.14	47.64	45.25	42.99	40.84	8-10 weeks
25		SG-34FA-380A80ZS	50.07	47.57	45.18	42.93	40.78	8-10 weeks
25		SG-34FA-380A80ZS-L	50.14	47.64	45.25	42.99	40.84	8-10 weeks
25		SG-34FA-480A40PS	24.65	23.42	22.25	21.14	20.08	8-10 weeks
25		SG-34FA-480A40PS-L	24.69	23.46	22.28	21.17	20.11	8-10 weeks
25		SG-34FA-480A40ZS	24.65	23.42	22.25	21.14	20.08	8-10 weeks
25		SG-34FA-480A40ZS-L	24.69	23.46	22.28	21.17	20.11	8-10 weeks
25		SG-34FA-480A50PS	30.05	28.55	27.12	25.77	24.48	8-10 weeks
25		SG-34FA-480A50PS-L	30.09	28.59	27.16	25.80	24.51	8-10 weeks
25		SG-34FA-480A50ZS	30.05	28.55	27.12	25.77	24.48	8-10 weeks

25	SG-34FA-480A50ZS-L	30.09	28.59	27.16	25.80	24.51	8-10 weeks
25	SG-34FA-480A60PS	39.15	37.20	35.33	33.57	31.89	8-10 weeks
25	SG-34FA-480A60PS-L	39.19	37.23	35.37	33.60	31.92	8-10 weeks
25	SG-34FA-480A60ZS	39.15	37.20	35.33	33.57	31.89	8-10 weeks
25	SG-34FA-480A60ZS-L	39.19	37.23	35.37	33.60	31.92	8-10 weeks
25	SG-34FA-480A70PS	46.38	44.07	41.86	39.77	37.78	8-10 weeks
25	SG-34FA-480A70PS-L	46.46	44.14	41.93	39.83	37.84	8-10 weeks
25	SG-34FA-480A70ZS	46.38	44.07	41.86	39.77	37.78	8-10 weeks
25	SG-34FA-480A70ZS-L	46.46	44.14	41.93	39.83	37.84	8-10 weeks
25	SG-34FA-480A80PS	56.14	53.34	50.67	48.14	45.73	8-10 weeks
25	SG-34FA-480A80PS-L	56.20	53.40	50.72	48.19	45.78	8-10 weeks
25	SG-34FA-480A80ZS	56.14	53.34	50.67	48.14	45.73	8-10 weeks
25	SG-34FA-480A80ZS-L	56.20	53.40	50.72	48.19	45.78	8-10 weeks

25	SG-34FD-240A40PS	18.42	17.50	16.62	15.79	15.00	8-10 weeks
25	SG-34FD-240A40PS-L	18.45	17.53	16.65	15.82	15.03	8-10 weeks
25	SG-34FD-240A40ZS	18.42	17.50	16.62	15.79	15.00	8-10 weeks
25	SG-34FD-240A40ZS-L	18.45	17.53	16.65	15.82	15.03	8-10 weeks
25	SG-34FD-240A50PS	25.97	24.67	23.43	22.26	21.15	8-10 weeks
25	SG-34FD-240A50PS-L	26.03	24.73	23.49	22.32	21.20	8-10 weeks
25	SG-34FD-240A50ZS	25.97	24.67	23.43	22.26	21.15	8-10 weeks
25	SG-34FD-240A50ZS-L	26.03	24.73	23.49	22.32	21.20	8-10 weeks
25	SG-34FD-240A60PS	32.19	30.58	29.05	27.60	26.22	8-10 weeks
25	SG-34FD-240A60PS-L	32.19	30.58	29.05	27.60	26.22	8-10 weeks
25	SG-34FD-240A60ZS	32.12	30.51	28.99	27.54	26.16	8-10 weeks
25	SG-34FD-240A60ZS-L	32.19	30.58	29.05	27.60	26.22	8-10 weeks
25	SG-34FD-240A70PS	39.32	37.36	35.49	33.71	32.03	8-10 weeks
25	SG-34FD-240A70PS-L	39.38	37.42	35.54	33.77	32.08	8-10 weeks
25	SG-34FD-240A70ZS	39.32	37.36	35.49	33.71	32.03	8-10 weeks
25	SG-34FD-240A70ZS-L	39.38	37.42	35.54	33.77	32.08	8-10 weeks
25	SG-34FD-240A80PS	47.98	45.58	43.30	41.14	39.08	8-10 weeks
25	SG-34FD-240A80PS-L	48.04	45.64	43.36	41.19	39.13	8-10 weeks
25	SG-34FD-240A80ZS	47.98	45.58	43.30	41.14	39.08	8-10 weeks
25	SG-34FD-240A80ZS-L	48.04	45.64	43.36	41.19	39.13	8-10 weeks

25	SG-34FD-380A40PS	21.64	20.56	19.53	18.56	17.63	8-10 weeks
25	SG-34FD-380A40PS-L	21.69	20.61	19.58	18.60	17.67	8-10 weeks
25	SG-34FD-380A40ZS	21.64	20.56	19.53	18.56	17.63	8-10 weeks
25	SG-34FD-380A40ZS-L	21.69	20.61	19.58	18.60	17.67	8-10 weeks
25	SG-34FD-380A50PS	26.05	24.75	23.51	22.34	21.22	8-10 weeks
25	SG-34FD-380A50PS-L	26.09	24.79	23.55	22.37	21.25	8-10 weeks
25	SG-34FD-380A50ZS	26.05	24.75	23.51	22.34	21.22	8-10 weeks
25	SG-34FD-380A50ZS-L	26.09	24.79	23.55	22.37	21.25	8-10 weeks
25	SG-34FD-380A60PS	35.15	33.39	31.72	30.14	28.63	8-10 weeks
25	SG-34FD-380A60PS-L	35.19	33.43	31.76	30.17	28.66	8-10 weeks
25	SG-34FD-380A60ZS	35.15	33.39	31.72	30.14	28.63	8-10 weeks
25	SG-34FD-380A60ZS-L	35.19	33.43	31.76	30.17	28.66	8-10 weeks
25	SG-34FD-380A70PS	42.34	40.23	38.21	36.30	34.49	8-10 weeks
25	SG-34FD-380A70PS-L	42.39	40.28	38.26	36.35	34.53	8-10 weeks
25	SG-34FD-380A70ZS	42.34	40.23	38.21	36.30	34.49	8-10 weeks
25	SG-34FD-380A70ZS-L	42.39	40.28	38.26	36.35	34.53	8-10 weeks
25	SG-34FD-380A80PS	52.07	49.47	46.99	44.64	42.41	8-10 weeks
25	SG-34FD-380A80PS-L	52.14	49.54	47.06	44.70	42.47	8-10 weeks

25	SG-34FD-380A80ZS	52.07	49.47	46.99	44.64	42.41	8-10 weeks
25	SG-34FD-380A80ZS-L	52.14	49.54	47.06	44.70	42.47	8-10 weeks

25	SG-34FD-480A40PS	25.97	24.67	23.43	22.26	21.15	8-10 weeks
25	SG-34FD-480A40PS-L	26.03	24.73	23.49	22.32	21.20	8-10 weeks
25	SG-34FD-480A40ZS	25.97	24.67	23.43	22.26	21.15	8-10 weeks
25	SG-34FD-480A40ZS-L	26.03	24.73	23.49	22.32	21.20	8-10 weeks
25	SG-34FD-480A50PS	33.07	31.42	29.85	28.36	26.94	8-10 weeks
25	SG-34FD-480A50PS-L	33.15	31.49	29.92	28.42	27.00	8-10 weeks
25	SG-34FD-480A50ZS	33.07	31.42	29.85	28.36	26.94	8-10 weeks
25	SG-34FD-480A50ZS-L	33.15	31.49	29.92	28.42	27.00	8-10 weeks
25	SG-34FD-480A60PS	39.11	37.16	35.30	33.54	31.86	8-10 weeks
25	SG-34FD-480A60PS-L	39.19	37.23	35.37	33.60	31.92	8-10 weeks
25	SG-34FD-480A60ZS	39.11	37.16	35.30	33.54	31.86	8-10 weeks
25	SG-34FD-480A60ZS-L	39.19	37.23	35.37	33.60	31.92	8-10 weeks
25	SG-34FD-480A70PS	47.32	44.95	42.70	40.57	38.54	8-10 weeks
25	SG-34FD-480A70PS-L	47.39	45.02	42.77	40.63	38.60	8-10 weeks
25	SG-34FD-480A70ZS	47.32	44.95	42.70	40.57	38.54	8-10 weeks
25	SG-34FD-480A70ZS-L	47.39	45.02	42.77	40.63	38.60	8-10 weeks
25	SG-34FD-480A80PS	53.61	50.94	48.39	45.97	43.67	8-10 weeks
25	SG-34FD-480A80PS-L	53.69	51.01	48.45	46.03	43.73	8-10 weeks
25	SG-34FD-480A80ZS	53.61	50.94	48.39	45.97	43.67	8-10 weeks
25	SG-34FD-480A80ZS-L	53.69	51.01	48.45	46.03	43.73	8-10 weeks