

Aluminum Capacitors +85 °C, Tubular, Axial Lead, General Purpose



QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Nominal case size Ø D x L in mm	0.75" x 1.125" [19.05 x 28.575] to 1.375" x 4.125" [34.925 x 104.775]			
Operating temperature	-40 °C to +85 °C			
Rated capacitance range, C _R	15 μF to 220 000 μF			
Tolerance on C _R	-10 %, +50 %; -10 %, +75 %			
Rated voltage range, U _R	6.3 WV _{DC} to 450 WV _{DC}			
Termination	Axial leads			
Life validation test at 85 °C	1000 h: Δ CAP \leq 15 % from initial measurement. Δ ESR \leq 1.5 x initial specified limit. Δ DCL \leq initial specified limit.			
Shelf life at 85 °C	500 h: $\Delta CAP \le 10$ % from initial measurement. $\Delta ESR \le 1.3$ x initial specified limit. $\Delta DCL \le 2.0$ x initial specified limit.			
DC leakage current (after 5 min charge)	I = $k√CV$ k = 6.0 at +25 °C; k = 36.0 at +85 °C I in μA, C in μF, V in Volts			

FEATURES

- General purpose capacitor
- Rugged construction
- Largest CV ratings in axial leaded capacitor
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RIPPLE CURRENT MULTIPLIERS						
	TEMPERATURE					
AMBIENT TE	AMBIENT TEMPERATURE MULTIPLIERS					
+75	5 °C	1	1.4			
+65	5 °C	1	1.7			
+45 °C a	+45 °C and below		2.0			
	FREQUEN	ICY (Hz)				
WV _{DC}	50 TO 60	300 TO 400	1000 AND UP			
0 to 50	0.85	1.10	1.15			
51 to 299	0.85	1.15	1.20			
300 to up	0.80	1.30	1.40			

LOW TEMPERATURE PERFORMANCE				
CAPACITANCE RATIO C ^{-40 °C} / C ^{+25 °C} MINIMUM AT 120 Hz				
Rated Voltage (WV _{DC})	Capacitance Remaining			
0 to 40	35			
41 to 63	45			
64 to 100	60			
101 to 350	20			
351 to 450	15			
ESR RATIO ESR-40 °C / ESF	R+ ^{25°C} MAXIMUM AT 120 Hz			
Rated Voltage (WV _{DC})	Multiplier			
0 to 40	60			
41 to 63	55			
64 to 100	65			
101 to 350	180			
351 to 450	190			

DIMENSIONS in inches [millimeters]							
CASE CODE	STYLE 6 AND 7		TYPICAL	CASE	STYLE 6 AND 7		TYPICAL
	D	L	WEIGHT	CODE	D	L	WEIGTH
GE	0.760 ± 0.020 [19.3 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.58]	0.46 oz. (13 g)	GL	0.760 ± 0.020 [19.3 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.58]	0.74 oz. (21 g)
GJ	0.760 ± 0.020 [19.3 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.58]	0.67 oz. (19 g)	GP	0.760 ± 0.020 [19.3 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.58]	0.88 oz. (25 g)
GS	0.760 ± 0.020 [19.3 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.58]	1.16 oz. (33 g)	KS	1.135 ± 0.020 [28.8 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.58]	2.54 oz. (72 g)
GT	0.760 ± 0.020 [19.3 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.58]	1.34 oz. (38 g)	KT	1.135 ± 0.020 [28.8 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.58]	2.96 oz. (84 g)
HE	0.885 ± 0.020 [22.5 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.58]	0.63 oz. (18 g)	KD	1.135 ± 0.020 [28.8 ± 0.51]	4.141 ± 0.062 [105.2 ± 1.58]	3.35 oz. (95 g)

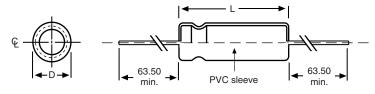
Revision: 20-Jul-16 1 Document Number: 42037

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Vishay Sprague

DIMENSIONS in inches [millimeters]							
CASE	STYLE 6 AND 7		TYPICAL	CASE	STYLE 6 AND 7		TYPICAL
CODE	D	L	WEIGHT	CODE	D	L	WEIGTH
HJ	0.885 ± 0.020 [22.5 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.58]	0.95 oz. (27 g)	LE	1.260 ± 0.020 [32.0 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.58]	1.13 oz. (32 g)
HL	0.885 ± 0.020 [22.5 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.58]	1.02 oz. (29 g)	LJ	1.260 ± 0.020 [32.0 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.58]	1.62 oz. (46 g)
HP	0.885 ± 0.020 [22.5 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.58]	1.38 oz. (39 g)	LL	1.260 ± 0.020 [32.0 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.58]	2.11 oz. (60 g)
HS	0.885 ± 0.020 [22.5 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.58]	1.73 oz. (49 g)	LP	1.260 ± 0.020 [32.0 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.58]	2.65 oz. (75 g)
HT	0.885 ± 0.020 [22.5 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.58]	2.08 oz. (59 g)	LS	1.260 ± 0.020 [32.0 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.58]	3.14 oz. (89 g)
JE	1.010 ± 0.020 [25.7 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.58]	0.81 oz. (23 g)	LT	1.260 ± 0.020 [32.0 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.58]	3.63 oz. (103 g)
JJ	1.010 ± 0.020 [25.7 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.58]	1.02 oz. (29 g)	LD	1.260 ± 0.020 [32.0 ± 0.51	4.141 ± 0.062 [105.2 ± 1.58]	4.16 oz. (118 g)
JL	1.010 ± 0.020 [25.7 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.58]	1.55 oz. (44 g)	ME	1.375 ± 0.020 [34.9 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.58]	1.38 oz. (39 g)
JP	1.010 ± 0.020 [25.7 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.58]	1.87 oz. (53 g)	MJ	1.375 ± 0.020 [34.9 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.58]	1.98 oz. (56 g)
JS	1.010 ± 0.020 [25.7 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.58]	2.22 oz. (63 g)	ML	1.375 ± 0.020 [34.9 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.58]	2.57 oz. (73 g)
JT	1.010 ± 0.020 [25.7 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.58]	2.54 oz. (72 g)	MP	1.375 ± 0.020 [34.9 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.58]	3.21 oz. (91 g)
KE	1.135 ± 0.020 [28.8 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.58]	0.92 oz. (26 g)	MS	1.375 ± 0.020 [34.9 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.58]	3.81 oz. (108 g)
KJ	1.135 ± 0.020 [28.8 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.58]	1.31 oz. (37 g)	MT	1.375 ± 0.020 [34.9 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.58]	4.44 oz. (126 g)
KL	1.135 ± 0.020 [28.8 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.58]	1.73 oz. (49 g)	MD	1.375 ± 0.020 [34.9 ± 0.51]	4.141 ± 0.062 [105.2 ± 1.58]	5.04 oz. (143 g)
KP	1.135 ± 0.020 [28.8 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.58]	2.15 oz. (61 g)	-	-	-	-

DIMENSIONS AND AVAILABLE FORMS



Lead diameter No. 18 AWG (0.040" [1.016 mm] Dia.)

ORDERING EXAMPLE

Electrolytic capacitor 53D series: 53D 282 G 025 GJ 6

DESCRIPTION				
CODE	EXPLANATION			
53D	Product type			
282	Capacitance value (2800 μF)			
G	Tolerance (G = -10 % / +75 %; F = -10 % / +50 %)			
025	Voltage rating at 85 °C (025 = 25 V)			
GJ	Can size (see Dimensions table)			
6	Sleeve and sealing (6 = P.V.C. sleeve)			

Note

 For lead (Pb)-free / RoHS compliant products add suffix "E3" to part number. Example: 53D282G025GJ6E3



Vishay Sprague

CAPACITANCE (µF) CASE CODE PART NUMBER MAX. ESR AT +25 °C (µC) MAX. RMS RIPPLE AT +85 120 Hz (mA) 6900.0 HJ \$5105826016HJ6 73 2150 10 000.0 HL \$5305826016HJ6 52 2840 28 WO _{CC} AT +85 °C, SURGE = 35 V 2800.0 GJ \$530282G025HJ6 103 1650 4300.0 HL \$530522G025HJ6 72 2170 6200.0 HL \$530522G025HJ6 51 2870 11 000.0 JP \$30113G025JP6 33 4230 35 WV _{DC} AT +85 °C, SURGE = 45 V 1100.0 GE \$30112G035GE6 219 980 2100.0 GJ \$530212G035GH6 77 2090 4700.0 HL \$53022G035HJ6 77 2090 4700.0 HL \$530247G035HL6 \$4 2780 8300.0 JP \$30832G035JH6 \$7 2090 1000.0 GE \$30102G050G6 231 95 1900.0	ELECTRICAL DATA AND ORDERING INFORMATION						
6900.0	CAPACITANCE (μF)		PART NUMBER	120 Hz			
10 000.0 HL S3D103G016HL6 52 2840 25 WV _{DC} AT +85 °C, SURGE = 35 V 2800.0 GJ S3D282G025GJ6 103 1650 4300.0 HJ S3D432G025HJ6 72 2170 6200.0 HL S3D622G025HL6 51 2870 11 000.0 JP S3D113G025JP6 33 4230 35 WV _{DC} AT +85 °C, SURGE = 45 V 1100.0 GE S3D112G035GJ6 111 1590 2100.0 GJ S3D212G035GJ6 111 1590 4700.0 HL S3D472G035HL6 54 2780 4700.0 HL S3D472G035HL6 54 2780 8300.0 JP S3D832G035JP6 34 4110 50 WV _{DC} AT +85 °C, SURGE = 70 V 1000.0 GE S3D102G05GJ66 231 950 1300.0 GJ S3D102G05GJ66 131 1470 1000.0 GE S3D102G05GJ66 231 950 1300.0 GJ S3D102G05GJ66 231 950 1300.0 GJ S3D102G05GJ66 51 11 1470 1900.0 HJ S3D132G050HJ6 94 1900 2800.0 HL S3D282G05HL6 65 2540 3800.0 JL S3D832G05HL6 65 2540 3800.0 JL S3D832G05HL6 65 2540 3800.0 JL S3D82G05GJL6 51 3090 2800.0 HL S3D82G05GJL6 51 3090 1000.0 GJ S3D102G063GJ6 145 145 1400 200.0 HL S3D222G05HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ S3D102G063GJ6 499 1000 460.0 JP S3D461F200JP6 379 1250 200 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE S3D60F250GE6 3035 263 100.0 GJ S3D101F250GJ6 1593 420 100.0 GJ S3D101F250GJ6 1593 420 100.0 GJ S3D101F250GJ6 1593 420 100.0 JL S3D311F250GJ6 1593 420 100.0 JL S3D311F250GJ6 1593 420 100.0 JL S3D11F250GJ6 1593 520			16 WV _{DC} AT	+85 °C, SURGE = 18 V			
25 WV _{DC} AT +85 °C, SURGE = 35 V 2800.0 GJ 53D282G025GJ6 103 1650 4300.0 HJ 53D432G025HJ6 72 2170 6200.0 HL 53D622G025HL6 51 2870 11 000.0 JP 53D113G025JP6 33 4230 35 WV _{DC} AT +85 °C, SURGE = 45 V 1100.0 GE 53D112G035GE6 219 980 2100.0 GJ 53D212G035GJ6 1111 1590 3200.0 HJ 53D322G035HJ6 77 2090 4700.0 HL 53D472G035HL6 54 2780 8300.0 JP 53D832G035JP6 34 4110 50 WV _{DC} AT +85 °C, SURGE = 70 V 1000.0 GE 53D102G050GE6 231 950 1300.0 GJ 53D132G050GJ6 131 1470 1900.0 HJ 53D132G050HJ6 94 1990 2800.0 HJ 53D132G050GJ6 131 1470 1900.0 HJ 53D132G050HJ6 94 1990 2800.0 HL 53D282G050HJ6 51 330 5000.0 JL 53D382G050HJ6 65 2540 3800.0 JL 53D382G050HJ6 65 2540 3800.0 JL 53D282G050HJ6 80 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 80 V 350.0 JL 53D22G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 100.0 GJ 53D101F250GJ6 1593 420 100.0 JL 53D311F250HJ6 1238 520 100.0 JL 53D11F250HJ6 1238 520	6900.0	HJ	53D692G016HJ6	73	2150		
2800.0 GJ 53D282G025GJ6 103 1650 4300.0 HJ 53D432G025HJ6 72 2170 6200.0 HL 53D622G025HL6 51 2870 11 000.0 JP 53D13G05H)6 33 4230 ***Total Company of the Company of th	10 000.0	HL	53D103G016HL6	52	2840		
4300.0 HJ 53D432G025HJ6 72 2170 6200.0 HL 53D622G025HL6 51 2870 11 000.0 JP 53D113G025JP6 33 4230 S3 WV _{DC} AT +85 °C, SURGE = 45 V 1100.0 GE 53D112G035GE6 219 980 2200.0 HJ 53D322G035HJ6 77 2090 4700.0 HL 53D472G035HJ6 54 2780 8300.0 JP 53D832G035JP6 34 4110 S5 WV _{DC} AT +85 °C, SURGE = 70 V 1000.0 GE 53D102G05GGE6 231 950 1300.0 GJ 53D102G05GGE6 231 950 1300.0 GJ 53D102G05GGE6 231 950 1300.0 HJ 53D322G035HJ6 54 1990 2800.0 HJ 53D32G05GJA6 131 1470 1470.0 HL 53D472G035HJ6 54 2780 1000.0 GE 53D102G05GGE6 231 950 1300.0 GJ 53D132G05GJA6 131 1470 1900.0 HJ 53D192G05GHJ6 65 2540 3800.0 JL 53D382G05GJA6 51 390 2800.0 HL 53D282G05HJ6 65 2540 3800.0 JL 53D382G05GJA6 51 3090 5000.0 JP 53D502G05GJA6 40 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G05GJA6 145 1400 2200.0 HL 53D222G063HJ6 86 2210 2200.0 HL 53D222G063HJ6 86 2210 2200.0 HL 53D222G063HJ6 86 2210 63 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 899 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F26GE6 3035 263 100.0 GJ 53D101F25GGJ6 1593 420 130.0 HJ 53D131F25GHJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V			25 WV _{DC} A1	+85 °C, SURGE = 35 V			
6200.0 HL 53D622G025HL6 51 2870 11 000.0 JP 53D113G025JP6 33 4230 35 WV _{DC} AT +85 °C, SURGE = 45 V 1100.0 GE 53D112G035GE6 219 980 2100.0 GJ 53D212G035GJ6 1111 1590 3200.0 HJ 53D322G035HJ6 77 2090 4700.0 HL 53D472G035HL6 54 2780 8300.0 JP 53D832G035JP6 34 4110 55 WV _{DC} AT +85 °C, SURGE = 70 V 1000.0 GE 53D102G050GJ6 231 950 1300.0 GJ 53D132G050HJ6 94 1990 2800.0 HJ 53D826G05HL6 65 2540 3800.0 JL 53D382G035HJ6 65 2540 3800.0 JL 53D382G05HJ6 65 2240 3800.0 JL 53D382G05DJ6 51 330 5000.0 JP 53D502G050JP6 40 3810 200 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G050JP6 40 3810 2200.0 HL 53D222G05HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D50F20GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 130.0 JL 53D101F400JL6 1524 560 140.0 JS 53D101F400JL6 1524 560	2800.0	GJ	53D282G025GJ6	103	1650		
11 000.0	4300.0	HJ	53D432G025HJ6	72	2170		
1100.0 GE	6200.0	HL	53D622G025HL6	51	2870		
1100.0 GE	11 000.0	JP	53D113G025JP6	33	4230		
2100.0 GJ 53D212G035GJ6 111 1590 3200.0 HJ 53D322G035HJ6 77 2090 4700.0 HL 53D472G035HL6 54 2780 8300.0 JP 53D832G035JP6 34 4110 50 WV _{DC} AT +85 °C, SURGE = 70 V			35 WV _{DC} A1	+85 °C, SURGE = 45 V			
3200.0	1100.0	GE	53D112G035GE6	219	980		
4700.0 HL 53D472G035HL6 54 2780 8300.0 JP 53D832G035JP6 34 4110 50 WV _{DC} AT +85 °C, SURGE = 70 V 1000.0 GE 53D102G050GE6 231 950 1300.0 GJ 53D132G050GJ6 131 1470 1900.0 HJ 53D192G050HJ6 94 1900 2800.0 HL 53D282G050HL6 65 2540 3800.0 JL 53D382G050JL6 51 3090 5000.0 JP 53D502G050JP6 40 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ	2100.0	GJ	53D212G035GJ6	111	1590		
8300.0 JP 53D832G035JP6 34 4110	3200.0	HJ	53D322G035HJ6	77	2090		
1000.0 GE	4700.0	HL	53D472G035HL6	54	2780		
1000.0 GE	8300.0	JP	53D832G035JP6	34	4110		
1300.0 GJ 53D132G050GJ6 131 1470 1900.0 HJ 53D192G050HJ6 94 1900 2800.0 HL 53D282G050HL6 65 2540 3800.0 JL 53D382G050JJ6 51 3090 5000.0 JP 53D502G050JP6 40 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D101F400J			50 WV _{DC} AT	+85 °C, SURGE = 70 V			
1900.0 HJ 53D192G050HJ6 94 1900 2800.0 HL 53D282G050HL6 65 2540 3800.0 JL 53D382G050JL6 51 3090 5000.0 JP 53D502G050JP6 40 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V	1000.0	GE	53D102G050GE6	231	950		
2800.0 HL 53D282G050HL6 65 2540 3800.0 JL 53D382G050JL6 51 3090 5000.0 JP 53D502G050JP6 40 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V	1300.0	GJ	53D132G050GJ6	131	1470		
3800.0 JL 53D382G050JL6 51 3090 5000.0 JP 53D502G050JP6 40 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D101F400JL6 1524 560	1900.0	HJ	53D192G050HJ6	94	1900		
5000.0 JP 53D502G050JP6 40 3810 63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	2800.0	HL	53D282G050HL6	65	2540		
63 WV _{DC} AT +85 °C, SURGE = 80 V 1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	3800.0	JL	53D382G050JL6	51	3090		
1000.0 GJ 53D102G063GJ6 145 1400 2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	5000.0	JP	53D502G050JP6	40	3810		
2200.0 HL 53D222G063HL6 86 2210 200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790			63 WV _{DC} A1	+85 °C, SURGE = 80 V			
200 WV _{DC} AT +85 °C, SURGE = 250 V 350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	1000.0	GJ	53D102G063GJ6	145	1400		
350.0 JL 53D351F200JL6 499 1000 460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	2200.0	HL	53D222G063HL6	86	2210		
460.0 JP 53D461F200JP6 379 1250 250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790			200 WV _{DC} A1	+85 °C, SURGE = 250 V			
250 WV _{DC} AT +85 °C, SURGE = 300 V 56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	350.0	JL	53D351F200JL6	499	1000		
56.0 GE 53D560F250GE6 3035 263 100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	460.0	JP	53D461F200JP6	379	1250		
100.0 GJ 53D101F250GJ6 1593 420 130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790			250 WV _{DC} A1	+85 °C, SURGE = 300 V			
130.0 HJ 53D131F250HJ6 1238 520 400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	56.0	GE	53D560F250GE6	3035	263		
400 WV _{DC} AT +85 °C, SURGE = 450 V 100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	100.0	GJ	53D101F250GJ6	1593	420		
100.0 JL 53D101F400JL6 1524 560 140.0 JS 53D141F400JS6 1084 790	130.0	HJ	53D131F250HJ6	1238	520		
140.0 JS 53D141F400JS6 1084 790			400 WV _{DC} A1	+85 °C, SURGE = 450 V			
	100.0	JL	53D101F400JL6	1524	560		
150.0 JS 53D151F400JS6 1011 820	140.0	JS	53D141F400JS6	1084	790		
	150.0	JS	53D151F400JS6	1011	820		

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