

Features

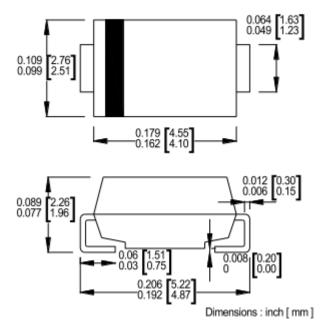
- Glass passivated chip
- ◆400 W peak pulse power capability with a 10/1000 µs waveform, repetitive rate (duty cycle):0.01 %
- Low leakage
- ◆Uni and Bidirectional unit
- ◆Excellent clamping capability
- ◆Very fast response time
- ◆RoHS compliant

Mechanical Data

- Case: Molded plastic
- ◆ Epoxy: UL 94V-0 rate flame retardant
- ◆ Lead: Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end except Bipolar
- ◆ Mounting position: Any

Surface Mount Transient Voltage Suppressors

SMA/DO-214AC





Maximum Ratings(T_A=25[◦]C unless otherwise noted)

Parameter	Symbol	Value	UNIT
Peak power dissipation with a 10/1000µs waveform ⁽¹⁾	P _{PP}	400	W
Peak pulse current wih a 10/1000µs waveform ⁽¹⁾	I _{PP}	See Next Table	А
Power dissipation on infinite heatsink at T _L = 75 °C	P _D	1.0	W
Peak forward surge current, 8.3 ms single half sinewave unidirectional only	I _{FSM}	40	А
Maximum instantaneous forward voltage at 25 A for unidirectional only	V _F	3.5/5.0	V
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150	°C

Note:

- (1)Non-repetitive current pulse per Fig.5 and derated above T_A= 25 °C per Fig.1
- (2)Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum
- (3)V $_{\text{F}}\!<\!3.5\text{V}$ for devices of V $_{\text{BR}}\!<\!200\text{V}$ and V $_{\text{F}}\!<\!5.0\text{V}$ for devices of V $_{\text{BR}}\!>\!201\text{V}$

Ratings and Characteristics Curves (T_A=25[°]C unless otherwise noted)

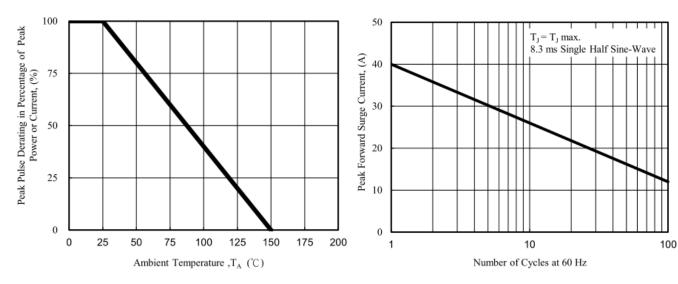


Fig. 1 - Pulse Derating Curve

Fig. 2 - Maximum Non-Repetitive Surge Current



Ratings and Characteristics Curves (T_A=25℃ unless otherwise noted)

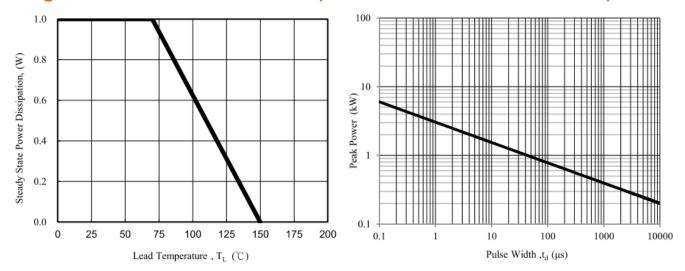


Fig. 3 - Steady State Power Derating Curve

Fig. 4 - Peak Pulse Power Rating Curve

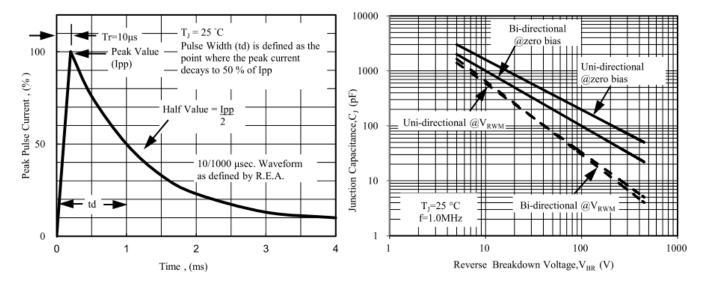


Fig. 5 - Pulse Waveform

Fig. 6 - Typical Junction Capacitance



Electrical Characteristics(T_A=25°C unless otherwise noted)

Part Number (Uni)		Device		Breakdown Voltage V _{BR} @I _T Min (V) Max (V) I _T (mA)			Maximum Reverse Leakage I _R @V _{RWM} (uA)	Working Peak Reverse Voltage V _{RWM} (V)	Maximum	Maximum Clamping Voltage V _C @I _{PP} (V)
SMAJ3V3A		A1		5.20	6.00	10	400	3.3	43.80	8.0
SMAJ5.0	SMAJ5.0C	AD	WD	6.40	7.30	10	800	5.0	41.67	9.6
SMAJ5.0A	SMAJ5.0CA	AE	WE	6.40	7.00	10	800	5.0	43.48	9.2
SMAJ6.0	SMAJ6.0C	AF	WF	6.67	8.15	10	800	6.0	35.09	11.4
SMAJ6.0A	SMAJ6.0CA	AG	WG	6.67	7.37	10	800	6.0	38.83	10.3
SMAJ6.5	SMAJ6.5C	AH	WH	7.22	8.82	10	500	6.5	32.52	12.3
SMAJ6.5A	SMAJ6.5CA	AK	WK	7.22	7.98	10	500	6.5	35.71	11.2
SMAJ7.0	SMAJ7.0C	AL	WL	7.78	9.51	10	200	7.0	30.08	13.3
SMAJ7.0A	SMAJ7.0CA	AM	WM	7.78	8.60	10	200	7.0	33.33	12.0
SMAJ7.5	SMAJ7.5C	AN	WN	8.33	10.20	1	100	7.5	27.97	14.3
SMAJ7.5A	SMAJ7.5CA	AP	WP	8.33	9.21	1	100	7.5	31.01	12.9
SMAJ8.0	SMAJ8.0C	AQ	WQ	8.89	10.90	1	50	8.0	26.67	15.0
SMAJ8.0A	SMAJ8.0CA	AR	WR	8.89	9.83	1	50	8.0	29.41	13.6
SMAJ8.5	SMAJ8.5C	AS	WS	9.44	11.50	1	10	8.5	25.16	15.9
SMAJ8.5A	SMAJ8.5CA	AT	WT	9.44	10.40	1	10	8.5	27.78	14.4
SMAJ9.0	SMAJ9.0C	AU	WU	10.00	12.20	1	5	9.0	23.67	16.9
SMAJ9.0A	SMAJ9.0CA	AV	WV	10.00	11.10	1	5	9.0	25.97	15.4
SMAJ10	SMAJ10C	AW	WW	11.10	13.60	1	5	10.0	21.28	18.8
SMAJ10A	SMAJ10CA	AX	WX	11.10	12.30	1	5	10.0	23.53	17.0
SMAJ11	SMAJ11C	AY	WY	12.20	14.90	1	1	11.0	19.90	20.1
SMAJ11A	SMAJ11CA	AZ	WZ	12.20	13.50	1	î	11.0	21.98	18.2
SMAJ12	SMAJ12C	BD	XD	13.30	16.30	1	î	12.0	18.18	22.0
SMAJ12A	SMAJ12CA	BE	XE	13.30	14.70	1	1	12.0	20.10	19.9
SMAJ13	SMAJ13C	BF	XF	14.40	17.60	1	î	13.0	16.81	23.8
SMAJ13A	SMAJ13CA	BG	XG	14.40	15.90	1	î	13.0	18.60	21.5
SMAJ14	SMAJ14C	BH	XH	15.60	19.10	1	1	14.0	15.50	25.8
SMAJ14A	SMAJ14CA	BK	XK	15.60	17.20	1	1	14.0	17.24	23.2
SMAJ15	SMAJ15C	BL	XL	16.70	20.40	1	1	15.0	14.87	26.9
SMAJ15A	SMAJ15CA	BM	XM	16.70	18.50	1	1	15.0	16.39	24.4
SMAJ16	SMAJ16C	BN	XN	17.80	21.80	1	1	16.0	13.89	28.8
SMAJ16A	SMAJ16CA	BP	XP	17.80	19.70	1	1	16.0	15.38	26.0
SMAJ17	SMAJ17C	BQ	XQ	18.90	23.10	1	1	17.0	13.11	30.5
SMAJ17A	SMAJ17CA	BR	XR	18.90	20.90	1	1	17.0	14.49	27.6
SMAJ18	SMAJ18C	BS	XS	20.00	24.40	1	1	18.0	12.42	32.2
SMAJ18A	SMAJ18CA	BT	XT	20.00	22.10	1	1	18.0	13.70	29.2
SMAJ19	SMAJ19C	BA	XA	21.13	25.76	1	1	19.0	11.76	34.0
SMAJ19A	SMAJ19CA	BB	XB	21.10	23.30	1	1	19.0	13.00	30.8
SMAJ20	SMAJ20C	BU	XU	22.20	27.10	1	1	20.0	11.17	35.8
SMAJ20A	SMAJ20CA	BV	XV	22.20	24.50	1	1	20.0	12.35	32.4
SMAJ22	SMAJ22C SMAJ22C	BW	XW	24.40	29.80	1	1	22.0	10.15	39.4
SMAJ22A	SMAJ22CA	BX	XX	24.40	26.90	1	1	22.0	11.27	35.5
SMAJ24	SMAJ24C	BY	XY	26.70	32.60	1	1	24.0	9.30	43.0
SMAJ24A	SMAJ24CA	BZ	XZ	26.70	29.50	1	1	24.0	10.28	38.9
SMAJ26	SMAJ24CA SMAJ26C	CD	YD	28.90	35.30	1	1	26.0	8.58	46.6
SMAJ26A	SMAJ26CA	CE	YE	28.90	31.90	1	1	26.0	9.50	42.1
SMAJ28	SMAJ28C SMAJ28C	CF	YF	31.10	38.00	1	1	28.0	8.00	50.0
SMAJ28A	SMAJ28CA	CF	YG	31.10	34.40	1	1	28.0	8.81	45.4
SMAJ28A SMAJ30	SMAJ28CA SMAJ30C	CH	YH	33.30	40.70	1	1	30.0	7.48	53.5
SMAJ30A	SMAJ30C SMAJ30CA	CK	YK	33.30	36.80	1	1	30.0	8.26	48.4
		_	YL			_				
SMAJ33	SMAJ33C	CL		36.70	44.90	1	1	33.0	6.78	59.0
SMAJ33A SMAJ36	SMAJ33CA SMAJ36C	CM	YM	36.70	40.60	1	1	33.0	7.50	53.3
SMAJ36	SMAJ36C	CN	YN	40.00	48.90	1	1	36.0	6.22	64.3
SMAJ36A	SMAJ36CA	CP	YP	40.00	44.20	1	1	36.0	6.88	58.1

Note:

- 1. Suffix 'A' denotes 5% tolerance device. Without 'A' denotes 10% tolerance device
- 2. Add suffix 'C 'or ' CA ' after part number to specify Bi-directional devices
- 3. For Bi-Directional devices having V_{R} of 10 volts and under, the I_{R} limit is double



Electrical Characteristics(T_A=25℃ unless otherwise noted)

NAISH	Part Number (Uni)	Part Number (Bi)	Device Marking Code			wn Voltage	V _{BR} @I _T	Maximum Reverse Leakage I _R @V _{RWM}	Working Peak Reverse	Maximum	Maximum Clamping Voltage V _C @I _{PP}
SMAJ400 SMAJ40C CQ YQ 44.40			Uni	Bi	Min (V)	Max (V)	I _T (mA)				
SMAJIAGA SMAJAGC CR YR 44.40 49.10 1 1 40.0 6.20 64.5 SMAJAG SMAJAGC CS YS 47.80 58.40 1 1 43.0 5.22 76.7 SMAJAGA SMAJAGC CV YV 50.00 61.0 1 1 43.0 5.22 76.7 SMAJAGA SMAJAGC CV YV 50.00 61.0 1 1 45.0 5.50 4.98 80.3 SMAJAGC SMAJAGC CV YV 50.00 55.30 1 1 45.0 5.50 4.98 80.3 SMAJAGC SMAJAGC CV YV 50.00 55.30 1 1 48.0 4.68 85.5 SMAJAGC SMAJAGC CV YV 50.00 55.30 1 1 48.0 4.68 85.5 SMAJAGC SMAJAGC CV YV 50.00 55.30 1 1 48.0 4.68 85.5 SMAJAGC SMAJAGC CV YV 50.00 55.30 1 1 1 51.0 4.39 91.1 SMAJAGC CV YV 50.00 55.00 1 1 51.0 4.39 91.1 SMAJAGC SMAJAGCA CV YV 50.00 55.00 1 1 51.0 4.39 91.1 SMAJAGCA CV YV 50.00 55.00 1 1 51.0 4.39 91.1 SMAJAGCA CV YV 50.00 50.00 1 1 51.0 4.39 91.1 SMAJAGCA CV YV 50.00 50.00 1 1 51.0 4.39 91.1 SMAJAGCA CV YV 50.00 50.00 1 1 51.0 4.39 91.1 SMAJAGCA CV YV 50.00 50.00 1 1 54.0 4.15 96.3 SMAJAGCA SMAJAGCA CV YV 50.00 50.00 1 1 54.0 4.15 96.3 SMAJAGCA SMAJAGCA CV YV 50.00 50.00 73.30 1 1 54.0 4.15 96.3 SMAJAGCA SMAJAGCA SMAJAGCA CV YV 50.00 50.00 73.30 1 1 54.0 4.15 96.3 SMAJAGCA	SMAJ40	SMAJ40C	СО	YO	44.40	54.30	1	1	40.0	5.60	
SMAJA13 SMAJA13C CS YS 47,80 58,40 1 1 43,0 5,76 69.4 SMAJA13 SMAJA15C CT YT 47,80 52,80 1 1 43,0 5,76 69.4 SMAJA15 SMAJA15C CU YU 50,00 61,10 1 45,0 49.8 80,3 SMAJA15 SMAJA15C CV YU 50,00 61,10 1 45,0 49.8 80,3 SMAJA15 SMAJA15C CV YU 50,00 55,30 1 1 45,0 5,50 72,7 SMAJA18 SMAJA16C CV YW 53,30 65,10 1 1 48,0 4,68 85,3 SMAJA18 SMAJA16C CV YW 53,30 65,10 1 1 48,0 4,68 85,3 SMAJA18 SMAJA16C CV YY 53,30 65,10 1 1 48,0 4,68 85,3 SMAJA18 SMAJA16C CV YY 56,70 69,30 1 1 51,0 4,39 91,1 SMAJ51 SMAJ51C CV YY 56,70 69,30 1 1 51,0 4,39 91,1 SMAJ51A SMAJ51C CV YZ 56,70 69,30 1 1 51,0 4,39 91,1 SMAJ51A SMAJ51C CV YZ 56,70 62,70 1 1 51,0 4,39 91,1 SMAJ51A SMAJ51C CV YZ 56,70 62,70 1 1 51,0 4,39 91,1 SMAJ51A SMAJ51C CV YZ 56,70 62,70 1 1 51,0 4,39 91,1 SMAJ51A SMAJ51C CV YZ 56,70 62,70 1 1 54,0 4,15 96,3 SMAJ54A SMAJ54C RE ZE 60,00 65,30 1 1 54,0 4,15 96,3 SMAJ58A SMAJ58C RE ZF 64,40 78,70 1 1 58,0 4,27 93,6 SMAJ58A SMAJ58C RE ZF 64,40 78,70 1 1 58,0 1 4,27 93,6 SMAJ58A SMAJ58C RE ZF 64,40 71,20 1 1 58,0 1 3,4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1	1			
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SMAJ488 SMAJ48C CW YW 53.30 65.10 1 1 48.0 4.68 85.5 SMAJ48A SAMAJSCA CX YX 53.30 5.89.0 1 1 48.0 5.17 774 SMAJ51 SMAJ51C CY YY 56.70 69.30 1 1 51.0 4.39 91.1 SMAJ51 SMAJ51C CY YY 56.70 69.30 1 1 51.0 4.39 91.1 SMAJ51A SMAJ51C CY YZ 56.70 62.70 1 1 51.0 4.39 91.1 SMAJ51A SMAJ51C CY YZ 56.70 62.70 1 1 51.0 4.39 91.1 SMAJ51A SMAJ51C CY YZ 56.70 62.70 1 1 51.0 4.85 82.4 SMAJ54A SMAJ54CA RE ZE 60.00 66.30 1 1 54.0 4.15 96.3 SMAJ54A SMAJ54CA RE ZE 60.00 66.30 1 1 54.0 4.59 87.1 SMAJ51A SMAJ54CA RE ZE 60.00 166.30 1 1 54.0 4.59 87.1 SMAJ58A SMAJ58CA RG ZG 64.40 77.20 1 1 58.0 4.27 93.6 SMAJ58A SMAJ58CA RG ZG 64.40 77.20 1 1 58.0 4.27 93.6 SMAJ58A SMAJ58CA RG ZG 64.40 77.20 1 1 58.0 4.27 93.6 SMAJ58A SMAJ58CA RG ZG 64.40 77.20 1 1 60.0 3.74 107.0 SMAJ60A SMAJ60C RE ZE 60.00 73.70 1 1 60.0 3.74 107.0 SMAJ60A SMAJ60CA RK ZK 66.70 73.70 1 1 60.0 4.13 98.8 SMAJ58A SMAJ58C RE ZF 64.80 80 1 1 1 64.0 3.51 114.0 SMAJ60A SMAJ60CA RK ZK 66.70 73.70 1 1 64.0 3.81 103.0 SMAJ70A SMAJ60C RR ZW 77.80 86.00 1 1 70.0 3.20 125.0 SMAJ70A SMAJ70CA RR ZP 77.80 86.00 1 1 70.0 3.20 125.0 SMAJ73A SMAJ75C RO ZQ 83.30 102.00 1 1 75.0 2.99 134.0 SMAJ73 SMAJ75C RO ZQ 83.30 102.00 1 1 75.0 2.99 134.0 SMAJ78 SMAJ75C RS ZS 86.70 106.00 1 1 78.0 2.88 139.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.88 139.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.88 139.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.88 139.0 SMAJ80 SMAJ80C RA ZA 88.96 108.80 1 1 78.0 2.88 139.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.89 137.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.89 137.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.89 137.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.89 137.0 SMAJ78 SMAJ78C RS ZS 86.70 106.00 1 1 78.0 2.89 139.0 SMAJ80 SMAJ80C RA ZA 88.96 108.80 1 1 1 80.0 2.79 143.2 SMAJ80 SMAJ80C RS ZS 86.70 106.00 1 1 1 78.0 2.26 177.0 SMAJ100 SMAJ100C RX ZY 111.00 130.00 1 1 1 10.0 0 2.27 140.0 SMAJ100 SMAJ100C RX ZY 111.00 12.00 1 1 1 10.0 0 2.27 140.0 SMAJ100 SMAJ100C RX ZY 111.0 1 12.0 0 1 1 1 10.0 0 1.27 140.0 SMAJ100 SMAJ100C RX ZY 12.0	SMAJ45	SMAJ45C					1	1	45.0	4.98	80.3
SMAJ18A SMAJ18CA CX YX 53.30 58.90 1 1 48.0 5.17 77.4			-			55.30	1	1	45.0	5.50	
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SMAJ85 SMAJ85CA RU ZU 94.40 115.00 1 1 85.0 2.65 151.0 SMAJ85A SMAJ85CA RV ZV 94.40 104.00 1 1 85.0 2.92 137.0 SMAJ90A SMAJ90CA RW ZW 100.00 122.00 1 1 90.0 2.74 146.0 SMAJ100 SMAJ90CA RX ZX 100.00 111.00 1 90.0 2.74 146.0 SMAJ100 SMAJ100C RY ZY 111.00 136.00 1 1 100.0 2.23 179.0 SMAJ100A SMAJ10C RD VD 122.00 149.00 1 1 110.0 2.47 162.0 SMAJ110A SMAJ10CA SE VE 122.00 149.00 1 1 110.0 2.26 177.0 SMAJ12O SMAJ130C SF VF 133.00 147.00 1 1 120.0	SMAJ80	SMAJ80C	RA	ZA		108.80	1	1	80.0	2.79	143.2
SMAJ85A SMAJ85CA RV ZV 94.40 104.00 1 1 85.0 2.92 137.0 SMAJ90 SMAJ90A RW ZW 100.00 122.00 1 1 90.0 2.50 160.0 SMAJ90A SMAJ90CA RX ZX 100.00 11.00 1 90.0 2.74 146.0 SMAJ100 SMAJ100CA RX ZY 111.00 136.00 1 1 100.0 2.23 179.0 SMAJ10A SMAJ10CA RZ ZZ 111.00 123.00 1 1 100.0 2.47 162.0 SMAJ110 SMAJ10CA SE VE 122.00 149.00 1 1 110.0 2.24 196.0 SMAJ110A SMAJ120CA SF VF 133.00 163.00 1 1 110.0 2.26 177.0 SMAJ130A SMAJ130C SF VF 133.00 163.00 1 1 120.0 <	SMAJ80A	SMAJ80CA				97.60	1	1	80.0	3.09	129.6
SMAJ90 SMAJ90CA RW ZW 100.00 122.00 1 1 90.0 2.50 160.0 SMAJ90A SMAJ90CA RX ZX 100.00 111.00 1 1 90.0 2.74 146.0 SMAJ100 SMAJ100C RY ZY 111.00 136.00 1 1 100.0 2.23 179.0 SMAJ100 SMAJ100CA RZ ZZ 111.00 123.00 1 1 100.0 2.47 162.0 SMAJ110 SMAJ110C SD VD 122.00 149.00 1 1 110.0 2.04 196.0 SMAJ120 SMAJ120C SF VF 133.00 163.00 1 1 110.0 2.26 177.0 SMAJ120A SMAJ130C SF VF 133.00 147.00 1 1 120.0 1.87 214.0 SMAJ130 SMAJ130C SF VH 144.00 176.00 1 1 <th< td=""><td>SMAJ85</td><td>SMAJ85C</td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>85.0</td><td></td><td></td></th<>	SMAJ85	SMAJ85C					1	1	85.0		
SMAJ90A SMAJ90CA RX ZX 100.00 111.00 1 1 90.0 2.74 146.0 SMAJ100 SMAJ100CA RY ZY 111.00 136.00 1 1 100.0 2.23 179.0 SMAJ100A SMAJ10CA RZ ZZ 111.00 123.00 1 1 100.0 2.47 162.0 SMAJ110C SD VD 122.00 149.00 1 1 110.0 2.04 196.0 SMAJ110A SMAJ110CA SE VE 122.00 135.00 1 1 110.0 2.26 177.0 SMAJ12O SMAJ12OCA SG VG 133.00 147.00 1 1 120.0 1.87 214.0 SMAJ13OC SH VH 144.00 176.00 1 1 130.0 1.73 231.0 SMAJ140A SMAJ140C SA VA 155.68 190.40 1 1 140.0 1.60 <t< td=""><td>SMAJ85A</td><td>SMAJ85CA</td><td>RV</td><td></td><td>94.40</td><td></td><td>1</td><td>1</td><td>85.0</td><td></td><td>137.0</td></t<>	SMAJ85A	SMAJ85CA	RV		94.40		1	1	85.0		137.0
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SMAJ190 SMAJ190C SU VU 211.28 258.40 1 1 190.0 1.18 340.1 SMAJ190A SMAJ190CA SV VV 211.00 232.00 1 1 190.0 1.30 307.8 SMAJ200A SMAJ200CA SW VW 224.00 247.00 1 1 200.0 1.23 324.0 SMAJ220A SMAJ220CA SX VX 246.00 272.00 1 1 220.0 1.12 356.0 SMAJ250A SMAJ250CA SZ VZ 279.00 309.00 1 1 250.0 0.99 405.0 SMAJ300A SMAJ300CA DE HE 335.00 371.00 1 1 300.0 0.82 486.0 SMAJ400A SMAJ400CA DK HK 447.00 494.00 1 1 400.0 0.62 648.0	SMAJ180	SMAJ180C	SS	VS	200.16	244.80	1	1	180.0	1.24	322.2
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SMAJ440A SMAJ440CA DM HM 492.00 543.00 1 1 440.0 0.56 713.0	SMAJ440A SMAJ440A	SMAJ440CA SMAJ440CA	DK DM	HK HM	447.00 492.00	494.00 543.00	1	1	400.0 440.0		648.0 713.0