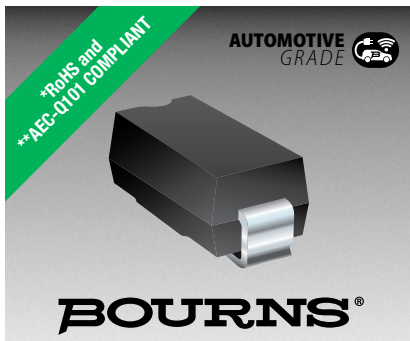




Features

- Surface Mount SMA package
- Standoff Voltage: 5 to 220 volts
- Power Dissipation: 400 watts
- RoHS compliant*
- AEC-Q101 compliant**

Applications

- Protection of power buses
- Protection of I/O interfaces
- Overvoltage transient protection
- Telecom, computer, industrial and consumer electronics applications

SMAJ-Q Transient Voltage Suppressor Diode Series

General Information

Bourns offers Transient Voltage Suppressor Diodes for surge and ESD protection applications, in compact chip package DO-214AC (SMA) size format. The Transient Voltage Suppressor series offers a choice of Working Peak Reverse Voltage from 5 V up to 220 V. Typical fast response times are less than 1.0 picosecond from 0 V to Breakdown Voltage.

Bourns® Chip Diodes conform to JEDEC standards, are easy to handle with standard pick and place equipment and the flat configuration minimizes roll away.

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ Unless Otherwise Noted)

Parameter	Symbol	Value	Unit
Minimum Peak Pulse Power Dissipation ($T_P = 1\text{ ms}$) (Note 1,2)	P_{PK}	400	Watts
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) (Note 3)	I_{FSM}	40	Amps
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

1. Non-repetitive current pulse, per Pulse Waveform graph and derated above $T_A = 25^\circ\text{C}$ per Pulse Derating Curve.
2. Mounted on 5.0 mm^2 (0.03 mm thick) copper pads to each terminal.
3. 8.3 ms Single Half-Sine Wave duty cycle = 4 pulses maximum per minute (unidirectional units only).

Additional Information

Click these links for more information:



Agency Recognition

Description	
UL	File Number: E153537



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
**"Q" part number suffix indicates AEC-Q101 compliance.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ Unless Otherwise Noted)

Unidirectional Device		Bidirectional Device		Breakdown Voltage V_{BR} (Volts)			Working Peak Reverse Voltage	Maximum Reverse Leakage @ V_{RWM}	Maximum Clamping Voltage @ I_{pp} (10/1000 μs)	Maximum Peak Pulse Current (10/1000 μs)	Maximum Clamping Voltage @ I_{pp} (8/20 μs)	Maximum Peak Pulse Current (8/20 μs)
Part No.	Marking	Part No.	Marking	Min.	Max.	@ I_T (mA)	V_{RWM} (V)	I_R (μA)	V_C (V)	I_{pp} (A)	V_C (V)	I_{pp} (A)
SMAJ5.0A-Q	HEQ	SMAJ5.0CA-Q	TEQ	6.40	7.00	10	5.0	800	9.2	43.5	12.0	217.5
SMAJ6.0A-Q	HGQ	SMAJ6.0CA-Q	TGQ	6.67	7.37	10	6.0	800	10.3	38.8	13.4	194.0
SMAJ6.5A-Q	HKQ	SMAJ6.5CA-Q	TKQ	7.22	7.98	10	6.5	500	11.2	35.7	14.6	178.5
SMAJ7.0A-Q	HMQ	SMAJ7.0CA-Q	TMQ	7.78	8.60	10	7.0	200	12.0	33.3	15.6	166.5
SMAJ7.5A-Q	HPQ	SMAJ7.5CA-Q	TPQ	8.33	9.21	1.0	7.5	100	12.9	31.0	16.8	155.0
SMAJ8.0A-Q	HRQ	SMAJ8.0CA-Q	TRQ	8.89	9.83	1.0	8.0	50	13.6	29.4	17.7	147.0
SMAJ8.5A-Q	HTQ	SMAJ8.5CA-Q	TTQ	9.44	10.4	1.0	8.5	20	14.4	27.8	18.7	139.0
SMAJ9.0A-Q	HVQ	SMAJ9.0CA-Q	TVQ	10.0	11.1	1.0	9.0	10	15.4	26.0	20.0	130.0
SMAJ10A-Q	HXQ	SMAJ10CA-Q	TXQ	11.1	12.3	1.0	10	5	17.0	23.5	22.1	117.5
SMAJ11A-Q	HZQ	SMAJ11CA-Q	TZQ	12.2	13.5	1.0	11	1.0	18.2	22.0	23.7	110.0
SMAJ12A-Q	IEQ	SMAJ12CA-Q	UEQ	13.3	14.7	1.0	12	1.0	19.9	20.1	25.9	100.5
SMAJ13A-Q	IGQ	SMAJ13CA-Q	UGQ	14.4	15.9	1.0	13	1.0	21.5	18.6	28.0	93.0
SMAJ14A-Q	IKQ	SMAJ14CA-Q	UKQ	15.6	17.2	1.0	14	1.0	23.2	17.2	30.2	86.0
SMAJ15A-Q	IMQ	SMAJ15CA-Q	UMQ	16.7	18.5	1.0	15	1.0	24.4	16.4	31.7	82.0
SMAJ16A-Q	IPQ	SMAJ16CA-Q	UPQ	17.8	19.7	1.0	16	1.0	26.0	15.4	33.8	77.0

- Notes: 1. Suffix 'A' denotes a 5 % tolerance unidirectional device.
2. Suffix 'CA' denotes a 5 % tolerance bidirectional device.

~ Continued on next page ~

SMAJ-Q Transient Voltage Suppressor Diode Series

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Electrical Characteristics (@ T_A = 25 °C Unless Otherwise Noted) - Continued

Unidirectional Device		Bidirectional Device		Breakdown Voltage V _{BR} (Volts)			Working Peak Reverse Voltage	Maximum Reverse Leakage @ V _{RWM}	Maximum Clamping Voltage @ I _{pp} (10/1000 μs)	Maximum Peak Pulse Current (10/1000 μs)	Maximum Clamping Voltage @ I _{pp} (8/20 μs)	Maximum Peak Pulse Current (8/20 μs)
Part No.	Marking	Part No.	Marking	Min.	Max.	@ I _T (mA)	V _{RWM} (V)	I _R (μA)	V _C (V)	I _{pp} (A)	V _C (V)	I _{pp} (A)
SMAJ17A-Q	IRQ	SMAJ17CA-Q	URQ	18.9	20.9	1.0	17	1.0	27.6	14.5	35.9	72.5
SMAJ18A-Q	ITQ	SMAJ18CA-Q	UTQ	20.0	22.1	1.0	18	1.0	29.2	13.7	38.0	68.5
SMAJ20A-Q	IVQ	SMAJ20CA-Q	UVQ	22.2	24.5	1.0	20	1.0	32.4	12.3	42.1	61.5
SMAJ22A-Q	IXQ	SMAJ22CA-Q	UXQ	24.4	26.9	1.0	22	1.0	35.5	11.3	46.2	56.5
SMAJ24A-Q	IZQ	SMAJ24CA-Q	UZQ	26.7	29.5	1.0	24	1.0	38.9	10.3	50.6	51.5
SMAJ26A-Q	JEQ	SMAJ26CA-Q	VEQ	28.9	31.9	1.0	26	1.0	42.1	9.5	54.7	47.5
SMAJ28A-Q	JGQ	SMAJ28CA-Q	VGQ	31.1	34.4	1.0	28	1.0	45.4	8.8	59.0	44.0
SMAJ30A-Q	JKQ	SMAJ30CA-Q	VKQ	33.3	36.8	1.0	30	1.0	48.4	8.3	62.9	41.5
SMAJ33A-Q	JMQ	SMAJ33CA-Q	VMQ	36.7	40.6	1.0	33	1.0	53.3	7.5	69.3	37.5
SMAJ36A-Q	JPQ	SMAJ36CA-Q	VPQ	40	44.2	1.0	36	1.0	58.1	6.9	75.5	34.5
SMAJ40A-Q	JRQ	SMAJ40CA-Q	VRQ	44.4	49.1	1.0	40	1.0	64.5	6.2	83.9	31.0
SMAJ43A-Q	JTQ	SMAJ43CA-Q	VTQ	47.8	52.8	1.0	43	1.0	69.4	5.8	90.2	29.0
SMAJ45A-Q	JVQ	SMAJ45CA-Q	VVQ	50	55.3	1.0	45	1.0	72.7	5.5	94.5	27.5
SMAJ48A-Q	JXQ	SMAJ48CA-Q	VXQ	53.3	58.9	1.0	48	1.0	77.4	5.2	100.6	26.0
SMAJ51A-Q	JZQ	SMAJ51CA-Q	VZQ	56.7	62.7	1.0	51	1.0	82.4	4.9	107.1	24.5
SMAJ54A-Q	REQ	SMAJ54CA-Q	WEQ	60	66.3	1.0	54	1.0	87.1	4.6	113.2	23.0
SMAJ58A-Q	RGQ	SMAJ58CA-Q	WGQ	64.4	71.2	1.0	58	1.0	93.6	4.3	121.7	21.5
SMAJ60A-Q	RKQ	SMAJ60CA-Q	WKQ	66.7	73.7	1.0	60	1.0	96.8	4.1	125.8	20.5
SMAJ64A-Q	RMQ	SMAJ64CA-Q	WMQ	71.1	78.6	1.0	64	1.0	103	3.9	133.9	19.5
SMAJ70A-Q	RPQ	SMAJ70CA-Q	WPQ	77.8	86.0	1.0	70	1.0	113	3.5	146.9	17.5
SMAJ75A-Q	RRQ	SMAJ75CA-Q	WRQ	83.3	92.1	1.0	75	1.0	121	3.3	157.3	16.5
SMAJ78A-Q	RTQ	SMAJ78CA-Q	WTQ	86.7	95.8	1.0	78	1.0	126	3.2	163.8	16.0
SMAJ85A-Q	RVQ	SMAJ85CA-Q	WVQ	94.4	104	1.0	85	1.0	137	2.9	178.1	14.5
SMAJ90A-Q	RXQ	SMAJ90CA-Q	WXQ	100	111	1.0	90	1.0	146	2.7	189.8	13.5
SMAJ100A-Q	RZQ	SMAJ100CA-Q	WZQ	111	123	1.0	100	1.0	162	2.5	210.6	12.5
SMAJ110A-Q	SEQ	SMAJ110CA-Q	XEQ	122	135	1.0	110	1.0	177	2.3	230.1	11.5
SMAJ120A-Q	SGQ	SMAJ120CA-Q	XGQ	133	147	1.0	120	1.0	193	2.1	250.9	10.5
SMAJ130A-Q	SKQ	SMAJ130CA-Q	XKQ	144	159	1.0	130	1.0	209	1.9	271.7	9.5
SMAJ150A-Q	SMQ	SMAJ150CA-Q	XMQ	167	185	1.0	150	1.0	243	1.6	315.9	8.0
SMAJ160A-Q	SPQ	SMAJ160CA-Q	XPQ	178	197	1.0	160	1.0	259	1.5	336.7	7.5
SMAJ170A-Q	SRQ	SMAJ170CA-Q	XRQ	189	209	1.0	170	1.0	275	1.5	357.5	7.5
SMAJ180A-Q	STQ	SMAJ180CA-Q	XTQ	201	222	1.0	180	1.0	292	1.4	379.6	7.0
SMAJ200A-Q	SVQ	SMAJ200CA-Q	XVQ	224	247	1.0	200	1.0	324	1.2	421.2	6.0
SMAJ220A-Q	SXQ	SMAJ220CA-Q	XXQ	246	272	1.0	220	1.0	356	1.1	462.8	5.5

Notes: 1. Suffix 'A' denotes a 5 % tolerance unidirectional device.
2. Suffix 'CA' denotes a 5 % tolerance bidirectional device.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

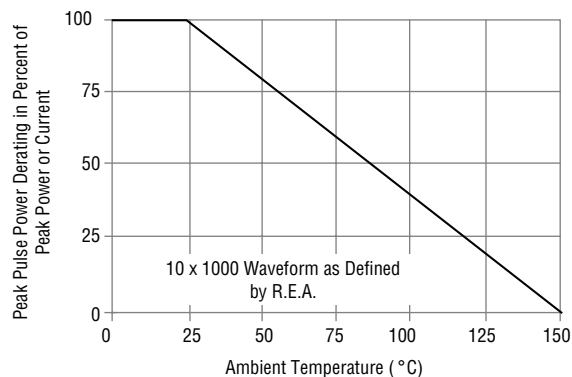
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SMAJ-Q Transient Voltage Suppressor Diode Series

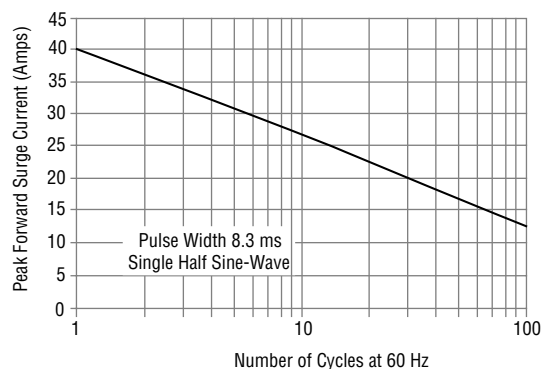
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Performance Graphs

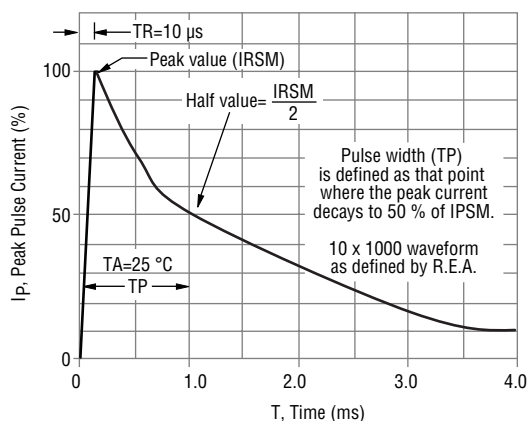
Peak Pulse Power Derating Curve



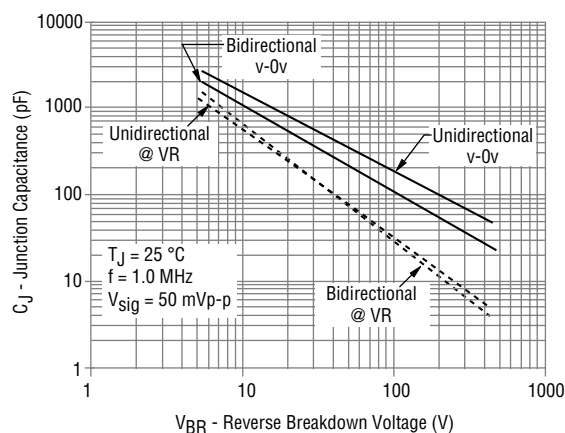
Maximum Non-Repetitive Surge Current



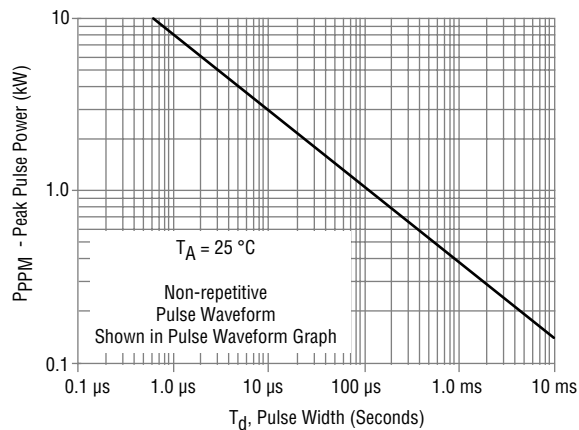
Pulse Waveform



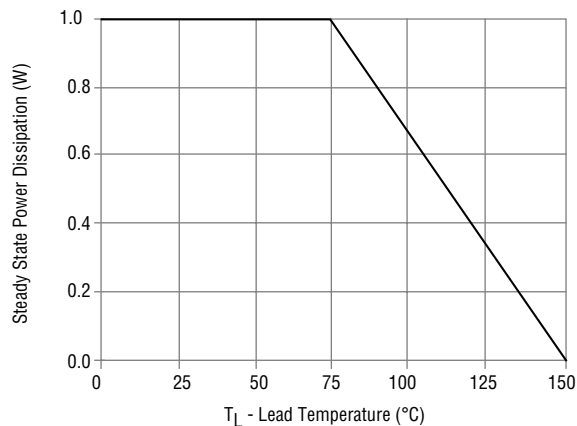
Typical Junction Capacitance



Pulse Rating Curve



Steady State Power Derating Curve



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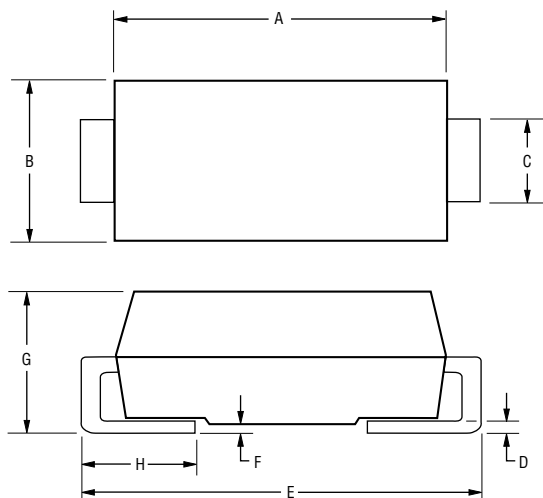
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SMAJ-Q Transient Voltage Suppressor Diode Series

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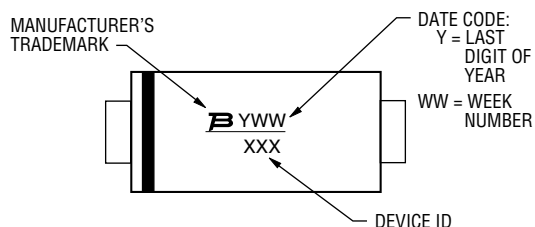
Product Dimensions



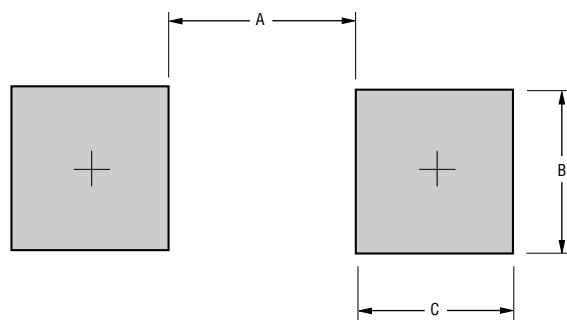
Dimension	SMA (DO-214AC)
A	$\frac{3.99 - 4.50}{(0.157 - 0.177)}$
B	$\frac{2.54 - 2.79}{(0.100 - 0.110)}$
C	$\frac{1.25 - 1.65}{(0.049 - 0.065)}$
D	$\frac{0.15 - 0.31}{(0.006 - 0.012)}$
E	$\frac{4.93 - 5.28}{(0.194 - 0.208)}$
F	$\frac{0.203}{(0.008)}$ MAX.
G	$\frac{1.98 - 2.29}{(0.078 - 0.090)}$
H	$\frac{0.76 - 1.52}{(0.030 - 0.060)}$

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Typical Part Marking



Recommended Footprint



Dimension	SMA (DO-214AC)
A (Max.)	$\frac{2.70}{(0.106)}$
B (Min.)	$\frac{2.10}{(0.083)}$
C (Min.)	$\frac{1.27}{(0.050)}$

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Physical Specifications

Case Molded plastic per UL Class 94V-0
Polarity.....Cathode band indicates unidirectional device
No cathode band indicates bidirectional device

How to Order

Package **SMAJ 12 CA - Q**
SMAJ = SMA/DO-214AC
Working Peak Reverse Voltage
12 = 12 V_{RWM} (Volts)
Suffix
A = 5 % Tolerance Unidirectional Device
CA = 5 % Tolerance Bidirectional Device
AEC-Q101 Suffix
Q = AEC-Q101 Compliant, 13-inch Reel
QH = AEC-Q101 Compliant, 7-inch Reel
(available only for 12 V to 58 V models)

Environmental Specifications

Moisture Sensitivity Level 1
ESD Classification (HBM).....3B

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

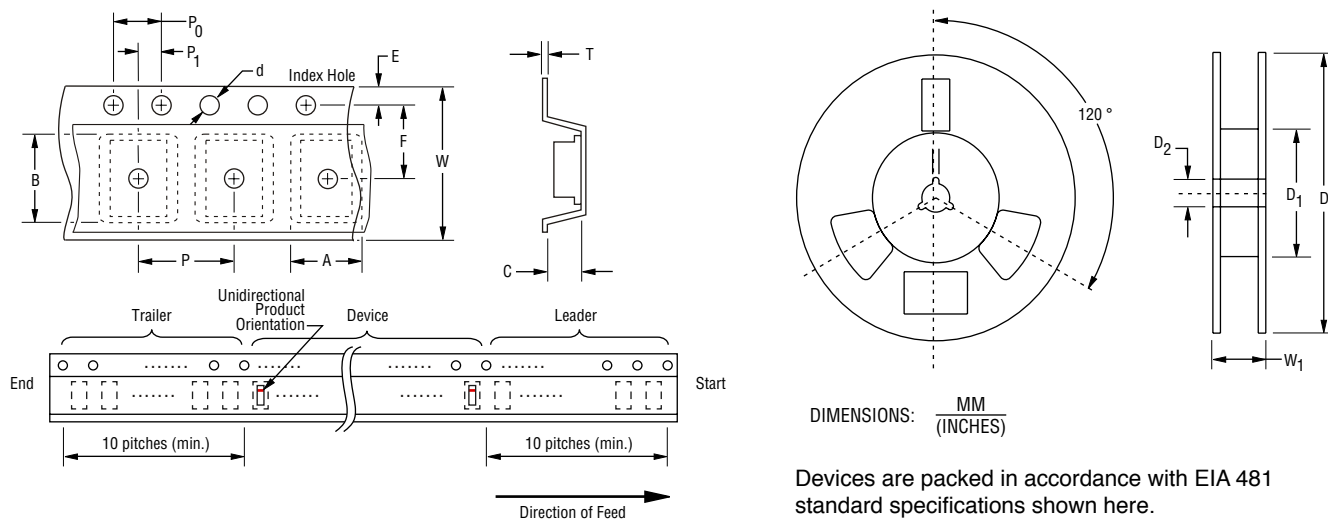
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SMAJ-Q Transient Voltage Suppressor Diode Series

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Packaging Information

The product will be dispensed in tape and reel format (see diagram below).



Item	Symbol	SMA (DO-214AC)	
		7-Inch Reel	13-Inch Reel
Carrier Width	A	2.90 ± 0.20 (0.114 ± 0.008)	
Carrier Length	B	5.50 ± 0.20 (0.217 ± 0.008)	
Carrier Depth	C	2.26 ± 0.20 (0.089 ± 0.008)	
Sprocket Hole	d	1.50 ± 0.10 (0.061 ± 0.004)	
Reel Outside Diameter	D	178 (7.008)	330 (12.992)
Reel Inner Diameter	D ₁	50.0 (1.969) MIN.	
Feed Hole Diameter	D ₂	13.0 ± 0.20 (0.512 ± 0.008)	
Sprocket Hole Position	E	1.75 ± 0.10 (0.069 ± 0.004)	
Punch Hole Position	F	5.50 ± 0.05 (0.217 ± 0.002)	
Punch Hole Pitch	P	4.00 ± 0.10 (0.157 ± 0.004)	
Sprocket Hole Pitch	P ₀	4.00 ± 0.10 (0.157 ± 0.004)	
Embossment Center	P ₁	2.00 ± 0.05 (0.079 ± 0.002)	
Overall Tape Thickness	T	0.30 ± 0.10 (0.012 ± 0.004)	
Tape Width	W	12.00 ± 0.30 (0.472 ± 0.012)	
Reel Width	W ₁	18.4 (0.724) MAX.	
Quantity per Reel	--	1,000	5,000

REV. 06/25

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[SMAJ51CA-Q](#) [SMAJ51A-Q](#) [SMAJ33A-QH](#) [SMAJ36CA-QH](#) [SMAJ12CA-QH](#) [SMAJ18CA-Q](#) [SMAJ16A-QH](#)
[SMAJ24A-QH](#) [SMAJ28A-Q](#) [SMAJ12A-QH](#) [SMAJ16CA-Q](#) [SMAJ24A-Q](#) [SMAJ17A-Q](#) [SMAJ13A-Q](#) [SMAJ40A-QH](#)
[SMAJ33A-Q](#) [SMAJ13CA-QH](#) [SMAJ28CA-QH](#) [SMAJ24CA-Q](#) [SMAJ36CA-Q](#) [SMAJ24CA-QH](#) [SMAJ58A-Q](#)
[SMAJ51CA-QH](#) [SMAJ18CA-QH](#) [SMAJ45CA-Q](#) [SMAJ20CA-Q](#) [SMAJ16A-Q](#) [SMAJ16CA-QH](#) [SMAJ14CA-Q](#)
[SMAJ30CA-Q](#) [SMAJ40A-Q](#) [SMAJ43CA-QH](#) [SMAJ54A-QH](#) [SMAJ26A-QH](#) [SMAJ45A-QH](#) [SMAJ26CA-QH](#)
[SMAJ33CA-QH](#) [SMAJ36A-Q](#) [SMAJ48A-QH](#) [SMAJ22CA-Q](#) [SMAJ12CA-Q](#) [SMAJ20A-QH](#) [SMAJ58CA-Q](#) [SMAJ22A-](#)
[QH](#) [SMAJ20A-Q](#) [SMAJ17A-QH](#) [SMAJ18A-Q](#) [SMAJ48CA-Q](#) [SMAJ36A-QH](#) [SMAJ14A-Q](#) [SMAJ33CA-Q](#) [SMAJ58A-](#)
[QH](#) [SMAJ26CA-Q](#) [SMAJ15CA-QH](#) [SMAJ48CA-QH](#) [SMAJ48A-Q](#) [SMAJ13CA-Q](#) [SMAJ13A-QH](#) [SMAJ15A-Q](#)
[SMAJ40CA-Q](#) [SMAJ14CA-QH](#) [SMAJ14A-QH](#) [SMAJ45CA-QH](#) [SMAJ54CA-Q](#) [SMAJ58CA-QH](#) [SMAJ43CA-Q](#)
[SMAJ30A-QH](#) [SMAJ17CA-QH](#) [SMAJ26A-Q](#) [SMAJ30A-Q](#) [SMAJ28A-QH](#) [SMAJ18A-QH](#) [SMAJ17CA-Q](#) [SMAJ22A-Q](#)
[SMAJ15A-QH](#) [SMAJ40CA-QH](#) [SMAJ12A-Q](#) [SMAJ43A-Q](#) [SMAJ28CA-Q](#) [SMAJ20CA-QH](#) [SMAJ15CA-Q](#)
[SMAJ8.5CA-Q](#) [SMAJ100A-Q](#) [SMAJ100CA-Q](#) [SMAJ10A-Q](#) [SMAJ10CA-Q](#) [SMAJ110A-Q](#) [SMAJ85A-Q](#) [SMAJ85CA-Q](#)
[SMAJ9.0A-Q](#) [SMAJ9.0CA-Q](#) [SMAJ90A-Q](#) [SMAJ90CA-Q](#)