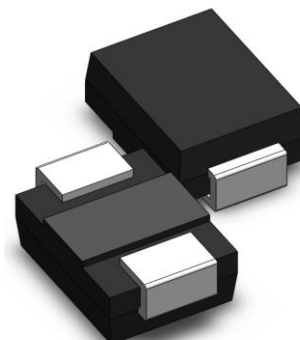




Features

- SMA or SMB Package
- Bi-directional Configurations
- Low Leakage <5 μ A
- Quick Response to Surge Voltage
- RoHS Compliant in Lead-Free Versions



SMA or SMB

Applications

- T1/E1 Trunk & LineCard
- RS-485/RS-232/RS-422
- Video/audio line

Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Surge Ratings (10/700 μ s)		See surge ratings	V
Storage Temperature Range	T _{STG}	-55 to 150	°C
Operating Junction Temperature Range	T _J	-55 to 150	°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified

Device		Package	V _{RWM} (V)	I _{DRM} @V _{RWM} (μ A)	V _S @ I _S (V)	I _S (mA)	V _T @ I _T (V)	I _T (A)	I _H (mA)	Co @ 2V, 1MHz, bias (pF)
			Min.	Max.	Max.	Max.	Max.	Max.	Min.	Typ.
S0080XX	S0080MA	SMA	6	5	25	800	4	2.2	30	50
	S0080SA	SMB	6	5	25	800	4	2.2	30	50
	S0080SB	SMB	6	5	25	800	4	2.2	30	70
	S0080SC	SMB	6	5	25	800	4	2.2	30	100
S0300XX	S0300MA	SMA	25	5	40	800	4	2.2	30	70
	S0300SA	SMB	25	5	40	800	4	2.2	30	70
	S0300SB	SMB	25	5	40	800	4	2.2	30	70
	S0300SC	SMB	25	5	40	800	4	2.2	30	100
S0640XX	S0640MA	SMA	58	5	77	800	4	2.2	150	50
	S0640SA	SMB	58	5	77	800	4	2.2	150	50
	S0640SB	SMB	58	5	77	800	4	2.2	150	60
	S0640SC	SMB	58	5	77	800	4	2.2	150	100

S0080~S4200 SERIES

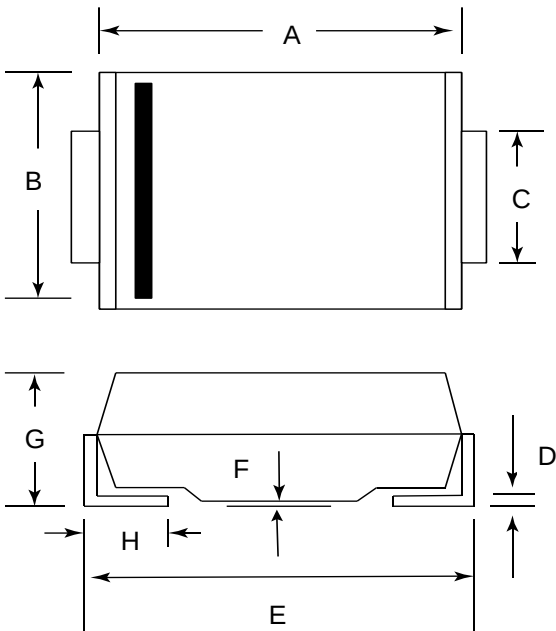
S0720XX	S0720MA	SMA	65	5	88	800	4	2.2	150	50
	S0720SA	SMB	65	5	88	800	4	2.2	150	50
	S0720SB	SMB	65	5	88	800	4	2.2	150	60
	S0720SC	SMB	65	5	88	800	4	2.2	150	100
S1800XX	S1800MA	SMA	170	5	220	800	4	2.2	150	40
	S1800SA	SMB	170	5	220	800	4	2.2	150	40
	S1800SB	SMB	170	5	220	800	4	2.2	150	60
	S1800SC	SMB	170	5	220	800	4	2.2	150	85
S2300XX	S2300MA	SMA	190	5	260	800	4	2.2	150	35
	S2300SA	SMB	190	5	260	800	4	2.2	150	35
	S2300SB	SMB	190	5	260	800	4	2.2	150	55
	S2300SC	SMB	190	5	260	800	4	2.2	150	80
S2600XX	S2600MA	SMA	220	5	300	800	4	2.2	150	35
	S2600SA	SMB	220	5	300	800	4	2.2	150	35
	S2600SB	SMB	220	5	300	800	4	2.2	150	50
	S2600SC	SMB	220	5	300	800	4	2.2	150	80
S3100XX	S3100MA	SMA	275	5	350	800	4	2.2	30	30
	S3100SA	SMB	275	5	350	800	4	2.2	30	30
	S3100SB	SMB	275	5	350	800	4	2.2	30	45
	S3100SC	SMB	275	5	350	800	4	2.2	30	35
S3500XX	S3500MA	SMA	320	5	400	800	4	2.2	30	30
	S3500SA	SMB	320	5	400	800	4	2.2	30	30
	S3500SB	SMB	320	5	400	800	4	2.2	30	40
	S3500SC	SMB	320	5	400	800	4	2.2	30	35
S4200XX	S4200SA	SMB	450	5	550	800	4	2.2	30	20
	S4200SB	SMB	450	5	550	800	4	2.2	150	40
	S4200SC	SMB	450	5	550	800	4	2.2	150	40

* For individual "MA", "SA", "SB", "SC" surge ratings, see table below.

Surge Ratings

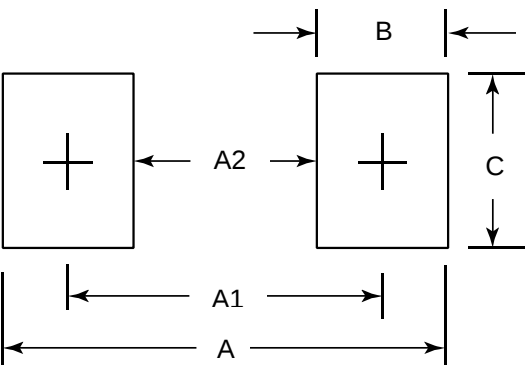
Series	I _{PP} (A) 2x10us	I _{PP} (A) 8x20us	I _{PP} (A) 10x160us	I _{PP} (A) 10x560us	I _{PP} (A) 10x1000us	I _{TSM} (A) 60Hz	di/dt (A/us)
SxxxxMA/SA	150	150	90	50	45	20	500
SxxxxSB	250	250	150	100	80	30	500
SxxxxSC	500	400	200	150	100	30	500

SMA Package Dimensions



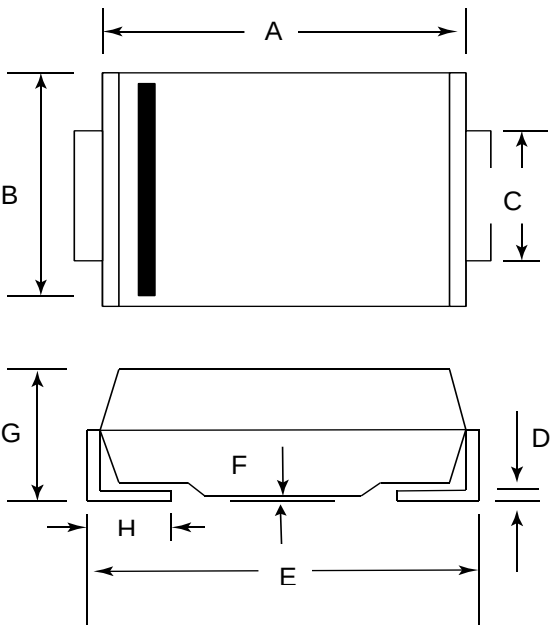
Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	3.99	4.50	0.157	0.177
B	2.54	2.79	0.100	0.110
C	1.25	1.65	0.049	0.065
D	0.152	0.305	0.006	0.012
E	4.93	5.28	0.194	0.208
F	----	0.203	----	0.008
G	1.98	2.29	0.078	0.090
H	0.76	1.52	0.030	0.060

Suggested Land Pattern



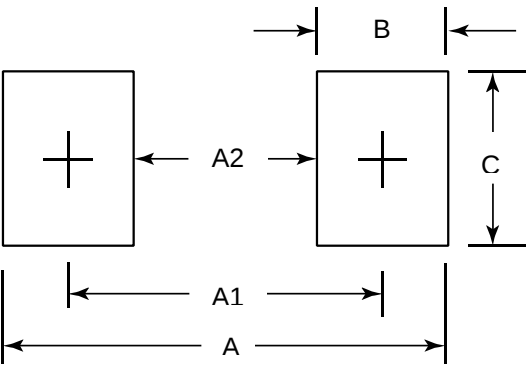
DIM	Millimeters
A	6.20
A1	4.10
A2	2.00
B	2.10
C	1.80

SMB Package Dimensions



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	4.06	4.57	0.160	0.180
B	3.30	3.94	0.130	0.155
C	1.78	2.20	0.070	0.086
D	0.13	0.31	0.006	0.012
E	5.08	5.59	0.200	0.220
F	----	0.20	----	0.008
G	1.95	2.62	0.077	0.103
H	0.76	1.52	0.030	0.060

Suggested Land Pattern



DIM	Millimeters
A	6.58
A1	4.42
A2	2.26
B	2.16
C	2.75