

HIGH QUALITY FLAT PACK RECTIFIERS

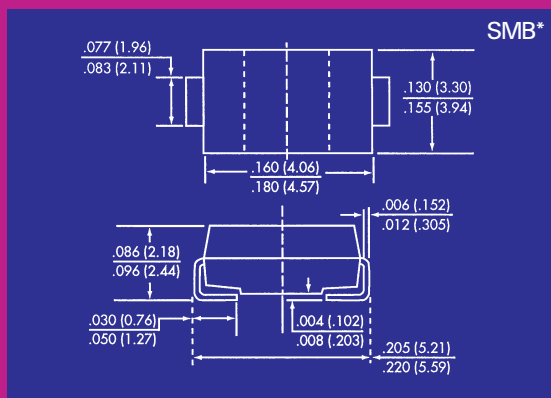
The Surge line of glass passivated silicon SMA/SMB/SMC surface mount flat pack rectifiers provide greater PC board stability over traditional MELF packages, making these discrete components ideal for design engineers who need high reliability in a tight package. They are available in General Purpose, Schottky, Fast Recovery, Ultra Fast Recovery and Super Fast Recovery versions in tape and reel.

Each version is high temperature solderable and is available from 1- to 3-Amp current ranges. Typical applications are found in automotive, telecommunications, power supplies and consumer electronics.



FEATURES:

- HIGH TEMP SOLDERABLE
- OPTIMUM PC BOARD STABILITY
- SURFACE MOUNTABLE
- DESIGNED FOR OPTIMUM INSERTION
- GLASS PASSIVATED



*SMA/SMC dimensions available upon request



Surge Components, Inc.

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www.surgecomponents.com

1.0 TO 3.0 AMPERES GENERAL PURPOSE RECTIFIERS

PART NUMBER	IO (A)	PIV	FWD SURGE (A)	VF(V) @ IO (DC)	PACKAGE
GS1A	1.0	50	30	1.1	SMA
GS1M	1.0	1000	30	1.1	(DO-214AC)
S1A	1.0	50	30	1.1	SMB
S1M	1.0	1000	30	1.1	(DO-214AA)
S2A	2.0	50	70	1.1	SMB
S2M	2.0	1000	70	1.1	(DO-214AA)
S3A	3.0	50	100	1.2	SMC
S3M	3.0	1000	100	1.2	(DO-214AB)

1.0 TO 3.0 AMPERES SCHOTTKY BARRIER RECTIFIERS

PART NUMBER	IO (A)	PIV	FWD SURGE (A)	VF(V) @ IO (DC)	PACKAGE
SS12	1.0	20	30	0.55	SMA
S100	1.0	100	30	0.85	(DO-214AC)
SK12	1.0	20	30	0.55	SMB
SK18	1.0	80	30	0.8	(DO-214AA)
SK22	2.0	20	50	0.55	SMB
SK28	2.0	80	50	0.7	(DO-214AA)
SK32	3.0	20	80	0.55	SMC
SK38	3.0	80	80	0.8	(DO-214AB)

1.0 TO 3.0 AMPERES FAST RECOVERY RECTIFIERS

PART NUMBER	IO (A)	PIV	FWD SURGE (A)	VF(V) @ IO (DC)	TRR @ (NS)	PACKAGE
RS1A	1.0	50	30	1.3	150	SMA
RS1K	1.0	800	30	1.3	500	(DO-214AC)
FR1A	1.0	50	30	1.3	150	SMB
FR1M	1.0	1000	30	1.3	500	(DO-214AA)
FR2A	2.0	50	50	1.3	150	SMB
FR2M	2.0	1000	50	1.3	500	(DO-214AA)
FR3A	3.0	50	100	1.3	150	SMC
FR3M	3.0	1000	100	1.3	500	(DO-214AB)

1.0 TO 3.0 AMPERES ULTRA FAST RECOVERY RECTIFIERS

PART NUMBER	IO (A)	PIV	FWD SURGE (A)	VF(V) @ IO (DC)	TRR @ (NS)	PACKAGE
US1A	1.0	50	30	1.0	50	SMA
US1K	1.0	800	30	1.7	100	(DO-214AC)
UF1A	1.0	50	30	1.0	50	SMB
UF1M	1.0	1000	30	1.7	100	(DO-214AA)
UF2A	2.0	50	60	1.0	50	SMB
UF2M	2.0	1000	60	1.7	100	(DO-214AA)
UF3A	3.0	50	100	1.0	50	SMC
UF3M	3.0	1000	100	1.7	100	(DO-214AB)

1.0 TO 3.0 AMPERES SUPER FAST RECOVERY RECTIFIERS

PART NUMBER	IO (A)	PIV	FWD SURGE (A)	VF(V) @ IO (DC)	TRR @ (NS)	PACKAGE
ES1A	1.0	50	30	0.95	35	SMA
ES1G	1.0	400	30	1.25	35	(DO-214AC)
ER1A	1.0	50	30	0.95	35	SMB
ER1E	1.0	300	30	1.25	35	(DO-214AA)
ER2A	2.0	50	50	0.95	35	SMB
ER2E	2.0	300	50	1.25	35	(DO-214AA)
ER3A	3.0	50	100	0.95	35	SMC
ER3E	3.0	300	100	1.25	35	(DO-214AB)

SURFACE MOUNT DISCRETE COMPONENT SELECTION GUIDE

Surge Components, Inc. provides a host of high-performance discrete semiconductors in many surface-mount packages and styles. These include rectifiers, diodes, transistors, and transient voltage suppressors (TVS)...each of which provides a critical function in controlling current, voltage and wattage within electronic products built for the industry's toughest environments.

All Surge products are manufactured at ISO-certified facilities and are handled according to all necessary specifications and requirements to ensure 100% quality from the factory to your circuit board.



FEATURES:

- **Competitively Priced**
- **Optimum PC Board Stability**
- **Easy Insertion**
- **High Performance**



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ZENER DIODES

250 mW/300 mW ZENER DIODE BZ84C3V3 – BZ84C47	SOT-23 PACKAGE
500 mW ZENER DIODE/MINI-MELF SL5226B – SL5262B	SL-35 PACKAGE
500 mW ZENER DIODE SMBZ5221B – SMBZ5261B	SOT-23 PACKAGE
500 mW ZENER DIODE ZSM5221B – ZSM5261B	SOD-323 PACKAGE
1.0 WATT ZENER DIODE/MELF SL4728 – SL4764	SL-41 PACKAGE

SCHOTTKY DIODES

1.0 AMPERE SCHOTTKY/MELF SL5817 – SL5819 SL105 – SL109	SL-41 PACKAGE
100 mA SCHOTTKY UBM10BC – UBMS19BC	SOT-23 PACKAGE

RECTIFIERS

1.0 AMPERE GLASS PASSIVATED/MELF SL4001G – SL4007G	SL-41 PACKAGE
1.0 AMPERE FAST RECOVERY GLASS PASSIVATED/MELF SL4933G – SL4937G	SL-41 PACKAGE

TRANSISTORS

NPN TRANSISTORS SMBT2222A – SMBTA42	SOT-23 PACKAGE
PNP TRANSISTORS SMBT2907A – SMBTA92	SOT-23 PACKAGE

TRANSIENT VOLTAGE SUPPRESSOR

P4SMAJ SERIES (400 WATT SURFACE MOUNT TVS) BI-DIRECTIONAL: P4SMAJ5.0C – P4SMAJ170CA UNI-DIRECTIONAL: P4SMAJ5.0 – P4SMAJ170A	SMA PACKAGE (DO-214AC)
P6SMBJ SERIES (600 WATT SURFACE MOUNT TVS) BI-DIRECTIONAL: P6SMBJ5.0C – P6SMBJ170CA UNI-DIRECTIONAL: P6SMBJ5.0 – P6SMBJ170A	SMB PACKAGE (DO-214AA)
1.5SMCJ SERIES (1500 WATT SURFACE MOUNT TVS) BI-DIRECTIONAL: 1.5SMCJ5.0C – 1.5SMCJ170CA UNI-DIRECTIONAL: 1.5SMCJ5.0 – 1.5SMCJ170A	SMC PACKAGE (DO-214AB)
3.0SMCJ SERIES (3000 WATT SURFACE MOUNT TVS) BI-DIRECTIONAL: 3.0SMCJ5.0C – 3.0SMCJ170CA UNI-DIRECTIONAL: 3.0SMCJ5.0 – 3.0SMCJ170A	SMC PACKAGE (DO-214AB)

SWITCHING DIODES

250 mW SWITCHING DIODE BAS16 – BAS21 BAV70.– BAV99	SOT-23 PACKAGE
250 mW/500 mW SWITCHING DIODE SD914	SOT-23 PACKAGE

DIP BRIDGE GLASS PASSIVATED

1.0 AMPERE STANDARD SIZE DBS101G – DBS107G	DIP PACKAGE
0.5 AMPERE MINI DIP B055 – B105	DIP PACKAGE