

Rectifiers

High Power Efficiency



Quick Reference Guide

STMicroelectronics
More Intelligent Solutions



20V, 30V and 40V SIGNAL SCHOTTKY DIODES

Voltage max (V)	Current (mA)	P / N	V _F max @ I _F		I _R max @25°C V _{RRM} (μA)	C typ @ 1MHz 1V* (pF)	trr (ns)	Package
			(V)	(mA)				
10	3000	BAT60JFILM	0.32	10	6	60	-	SOD-323
20	350	BAT47	1.00	300	10	12	10	DO-35
30	100	BAR42FILM	0.40	10	0.5	7	5	SOT-23
30	100	BAR43AFILM	0.33	2	0.5	7	5	SOT-23
30	100	BAR43CFILM	0.33	2	0.5	7	5	SOT-23
30	100	BAR43FILM	0.33	2	0.5	7	5	SOT-23
30	100	BAR43SFILM	0.33	2	0.5	7	5	SOT-23
30	200	BAT42	0.40	10	0.5	7	5	DO-35
30	200	BAT43	0.33	2	0.5	7	5	DO-35
30	200	TMMBAT42FILM	0.40	10	0.5	7	5	MiniMELF
30	200	TMMBAT43FILM	0.33	2	0.5	7	5	MiniMELF
30	300	BAT54AFILM	0.90	100	1	7	5	SOT-23
30	300	BAT54AWFILM	0.90	100	1	7	5	SOT-323
30	300	BAT54CFILM	0.90	100	1	7	5	SOT-23
30	300	BAT54CWFILM	0.90	100	1	7	5	SOT-323
30	300	BAT54FILM	0.90	100	1	7	5	SOT-23
30	300	BAT54JFILM	0.90	100	1	7	5	SOD-323
30	300	BAT54SFILM	0.90	100	1	7	5	SOT-23
30	300	BAT54SWFILM	0.90	100	1	7	5	SOT-323
30	300	BAT54WFILM	0.90	100	1	7	5	SOT-323
40	350	BAT48	0.75	200	25	12	10	DO-35
40	350	TMMBAT48FILM	0.75	200	25	12	10	MiniMELF
40	1000	BYV10-40	0.55	1000	500	220 (@ 0V)	-	DO-41
40	1000	TMBYV10-40FILM	0.55	1000	500	220 (@ 0V)	-	MELF

*Or at specified value

60V, 70V, 80V and 100V SIGNAL SCHOTTKY DIODES

Voltage max (V)	Current (mA)	P / N	V _F max @ I _F		I _R max @25°C V _{RRM} * (μA)	C typ @ 1MHz 0V (pF)	Dynamic Parameters	Package
			(V)	(mA)				
60	15	1N6263	0.41	1	0.2 (@ 50V)	2.2	t < 100 ps / 5mA	DO-35
60	15	TMM6263FILM	0.41	1	0.2 (@ 50V)	2.2	t < 100 ps / 5mA	MiniMELF
60	1000	BYV10-60	0.70	1000	500	150	-	DO-41
60	1000	TMBYV10-60FILM	0.70	1000	500	150	-	MELF
70	15	1N5711	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	DO-35
70	15	BAR18FILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-23
70	15	BAR28	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	DO-35
70	15	BAS70-04FILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-23
70	15	BAS70-04WFILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-323
70	15	BAS70-05FILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-23
70	15	BAS70-05WFILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-323
70	15	BAS70-06FILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-23
70	15	BAS70-06WFILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-323
70	15	BAS70JFILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOD-323
70	15	BAS70WFILM	0.41	1	0.2 (@ 50V)	2	t < 100 ps / 5mA	SOT-323
80	500	BAT49	0.32	10	200	120	-	DO-41
80	500	TMBAT49FILM	0.32	10	200	120	-	MELF
100	100	BAT41	0.45	1	0.1	2	-	DO-35
100	100	TMMBAT41FILM	0.45	1	0.1	2	-	MiniMELF
100	150	BAR46FILM	0.25	0.1	5 (@ 75V)	10	-	SOT-23
100	150	BAR46AFILM	0.25	0.1	5 (@ 75V)	10	-	SOT-23
100	150	BAT46	0.25	0.1	5 (@ 75V)	10	-	DO-35
100	150	BAT46AWFILM	0.25	0.1	5 (@ 75V)	10	-	SOT-323
100	150	BAT46CWFILM	0.25	0.1	5 (@ 75V)	10	-	SOT-323
100	150	BAT46JFILM	0.25	0.1	5 (@ 75V)	10	-	SOD-323
100	150	BAT46WFILM	0.25	0.1	5 (@ 75V)	10	-	SOT-323
100	150	TMMBAT46FILM	0.25	0.1	5 (@ 75V)	10	-	MiniMELF

*Or at specified value

New products in blue characters

15V, 20V, 25V, 30 and 40V POWER SCHOTTKY DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ I _F		I _R max @ 25°C (µA)	I _{FSM} (A)	T _J max (°C)	Package
			(V)	(A)				
15	20	STPS20L15D	0.33	19	6000	310	125	TO-220AC
15	20	STPS20L15G	0.33	19	6000	310	125	D ² PAK
15	2 x 20	STPS40L15CT	0.33	19	6000	310	125	TO-220AB
15	2 x 20	STPS40L15CW	0.33	19	6000	310	125	TO-247
15	2 x 40	STPS80L15CY	0.33	40	16000	600	125	Max247
15	2 x 40	STPS80L15TV	0.33	40	16000	700	125	ISOTOP
15	2 x 60	STPS120L15TV	0.31	60	22000	1200	125	ISOTOP
20	0.5	STPS0520M	0.30	0.5	50	50	150	STmite
20	0.5	STPS0520Z	0.32	0.5	150	5.5	125	SOD-123
20	1	1N5817	0.45	1	1000	25	150	DO-41
20	1	STPS120M	0.41	1	3.9	50	150	STmite
20	1	STPS1L20M	0.37	1	75	50	150	STmite
20	3	1N5820	0.48	3	2000	80	150	DO-201AD
25	2	STPS2L25U	0.38	2	90	75	150	SMB
25	3	STPS3L25S	0.44	3	90	75	150	SMC
25	5	STPS5L25B	0.35	5	350	75	150	DPAK
25	10	STPS10L25D	0.35	10	800	200	150	TO-220AC
25	10	STPS10L25G	0.35	10	800	200	150	D ² PAK
25	15	STPS15L25D	0.35	15	1300	250	150	TO-220AC
25	15	STPS15L25G	0.35	15	1300	250	150	D2PAK
25	2 x 10	STPS20L25CG	0.35	10	800	220	150	D ² PAK
25	2 x 10	STPS20L25CT	0.35	10	800	220	150	TO-220AB
30	1	1N5818	0.55	1	1000	25	150	DO-41
30	1	STPS130A	0.46	1	10	45	150	SMA
30	1	STPS130U	0.46	1	10	45	150	SMB
30	1	STPS1L30A	0.30	1	200	75	150	SMA
30	1	STPS1L30M	0.34	1	390	50	150	STmite
30	1	STPS1L30U	0.30	1	200	75	150	SMB
30	2	STPS2L30A	0.38	2	200	75	150	SMA
30	3	1N5821	0.50	3	2000	80	150	DO-201AD
30	8	STPS8L30B	0.40	8	1000	75	150	DPAK
30	2 x 7.5	STPS15L30CB	0.39	7.5	1000	75	150	DPAK
30	2 x 10	STPS2030CG	0.42	10	1000	180	150	D ² PAK
30	2 x 10	STPS2030CR	0.42	10	1000	180	150	I ² PAK
30	2 x 10	STPS2030CT	0.42	10	1000	180	150	TO-220AB
30	2 x 15	STPS3030CG	0.42	15	1000	220	150	D ² PAK
30	2 x 15	STPS3030CR	0.42	15	1000	220	150	I ² PAK
30	2 x 15	STPS3030CT	0.42	15	1000	220	150	TO-220AB
30	2 x 15	STPS30L30CG	0.37	15	1500	220	150	D ² PAK
30	2 x 15	STPS30L30CR	0.37	15	1500	220	150	I ² PAK
30	2 x 15	STPS30L30CT	0.37	15	1500	220	150	TO-220AB
30	2 x 20	STPS4030CG	0.40	20	750	220	150	D ² PAK
30	2 x 20	STPS4030CR	0.40	20	750	220	150	I ² PAK
30	2 x 20	STPS4030CT	0.40	20	1500	220	150	TO-220AB
30	2 x 20	STPS41L30CG	0.38	20	1500	220	150	D ² PAK
30	2 x 30	STPS6030CW	0.41	30	1000	600	150	TO-247
30	2 x 30	STPS60L30CW	0.38	30	4000	600	150	TO-247
30	2 x 40	STPS80L30CY	0.38	40	4000	400	150	Max247
40	0.5	STPS0540Z	0.40	0.5	40	5.5	150	SOD-123
40	1	1N5819	0.60	1	1000	25	150	DO-41
40	1	STPS140A	0.50	1	12	75	150	SMA
40	1	STPS140U	0.50	1	12	75	150	SMB
40	1	STPS140Z	0.51	1	10	5.5	150	SOD-123
40	1	STPS1L40A	0.42	1	35	60	150	SMA
40	1	STPS1L40M	0.40	1	63	50	150	STmite
40	1	STPS1L40U	0.42	1	35	60	150	SMB
40	2	STPS2L40U	0.34	2	220	75	150	SMB
40	3	1N5822	0.53	3	2000	80	150	DO-201AD
40	3	STPS340B	0.57	3	20	75	150	DPAK
40	3	STPS340S	0.57	3	20	75	150	SMC
40	3	STPS340U	0.57	3	20	75	150	SMB
40	3	STPS3L40S	0.44	3	100	75	150	SMC
40	5	STPS5L40	0.48	5	200	150	150	DO-201AD
40	2 x 3	STPS640CB	0.57	3	100	75	150	DPAK
40	2 x 3	STPS640CF	0.57	3	100	75	150	ISOWATT220AC

The STPSxxL40Cy have been replaced by the L45 series

New products in blue characters

45V and 60V POWER SCHOTTKY DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ I _F		I _R max @25°C (μA)	I _{FSM} (A)	T _j max (°C)	Package
			(V)	(A)				
45	7.5	STPS745D	0.57	7.5	100	150	175	TO-220AC
45	7.5	STPS745F	0.57	7.5	100	150	175	ISOWATT220AC
45	7.5	STPS745FP	0.57	7.5	100	150	175	TO-220FPAC
45	7.5	STPS745G	0.57	7.5	100	150	175	D ² PAK
45	10	STPS1045B	0.57	7.5	100	75	175	DPAK
45	10	STPS1045D	0.57	7.5	100	180	175	TO-220AC
45	10	STPS1045F	0.57	7.5	100	180	175	ISOWATT220AC
45	10	STPS1045FP	0.57	7.5	100	180	175	TO-220FPAC
45	2 x 5	STPS10L45CF	0.46	5	150	150	150	ISOWATT220AC
45	2 x 5	STPS10L45CFP	0.46	5	150	150	150	TO-220FPAB
45	2 x 5	STPS10L45CG	0.46	5	150	150	150	I ² PAK
45	2 x 5	STPS10L45CT	0.46	5	150	150	150	TO-220AB
45	2 x 7.5	STPS1545CF	0.57	7.5	100	150	175	ISOWATT220AB
45	2 x 7.5	STPS1545CFP	0.57	7.5	100	150	175	TO-220FPAB
45	2 x 7.5	STPS1545CG	0.57	7.5	100	150	175	D ² PAK
45	2 x 7.5	STPS1545CR	0.57	7.5	100	150	175	I ² PAK
45	2 x 7.5	STPS1545CT	0.57	7.5	100	150	175	TO-220AB
45	2 x 7.5	STPS15L45CB	0.46	7.5	1000	75	150	DPAK
45	15	STPS1545D	0.57	7.5	200	220	175	TO-220AC
45	15	STPS1545F	0.57	7.5	200	220	175	ISOWATT220AC
45	15	STPS1545FP	0.57	7.5	200	220	175	TO-220FPAC
45	2 x 8	STPS16L45CFP	0.45	8	200	180	150	TO-220FPAB
45	2 x 8	STPS16L45CT	0.45	8	200	180	150	TO-220AB
45	2 x 10	STPS2045CF	0.57	10	100	180	175	ISOWATT220AB
45	2 x 10	STPS2045CFP	0.57	10	100	180	175	TO-220FPAC
45	2 x 10	STPS2045CG	0.57	10	100	180	175	D ² PAK
45	2 x 10	STPS2045CT	0.57	10	100	180	175	TO-220AB
45	2 x 10	STPS20L45CF	0.50	10	200	180	150	ISOWATT220AB
45	2 x 10	STPS20L45CFP	0.50	10	200	180	150	TO-220FPAB
45	2 x 10	STPS20L45CG	0.50	10	200	180	150	D ² PAK
45	2 x 10	STPS20L45CR	0.50	10	200	180	150	I ² PAK
45	2 x 10	STPS20L45CT	0.50	10	200	180	150	TO-220AB
45	2 x 10	STPS20L45CW	0.50	10	200	180	150	TO-247
45	2 x 15	STPS3045CG	0.57	15	200	220	175	D ² PAK
45	2 x 15	STPS3045CP	0.57	15	200	220	175	SOT-93
45	2 x 15	STPS3045CPI	0.57	15	200	220	175	TOP3 Ins.
45	2 x 15	STPS3045CR	0.57	15	200	220	175	I ² PAK
45	2 x 15	STPS3045CT	0.57	15	200	220	175	TO-220AB
45	2 x 15	STPS3045CW	0.57	15	200	220	175	TO-247
45	2 x 15	STPS30L45CG	0.50	15	400	220	150	D ² PAK
45	2 x 15	STPS30L45CR	0.50	15	400	220	150	I ² PAK
45	2 x 15	STPS30L45CT	0.50	15	400	220	150	TO-220AB
45	2 x 15	STPS30L45CW	0.50	15	400	220	150	TO-247
45	2 x 20	STPS4045CP	0.63	20	200	220	175	SOT-93
45	2 x 20	STPS4045CW	0.63	20	200	220	175	TO-247
45	2 x 20	STPS40L45CG	0.49	20	600	230	150	D ² PAK
45	2 x 20	STPS40L45CT	0.49	20	600	230	150	TO-220AB
45	2 x 20	STPS40L45CW	0.49	20	600	230	150	TO-247
45	2 x 20	STPS41L45CG	0.47	20	1200	220	150	D ² PAK
45	2 x 30	STPS6045CP	0.63	30	1500	400	175	SOT-93
45	2 x 30	STPS6045CPI	0.63	30	1500	400	150	TOP3 Ins.
45	2 x 30	STPS6045CW	0.63	30	1500	400	175	TO-247
45	2 x 30	STPS60L45CW	0.50	30	1500	600	175	TO-247
45	2 x 60	STPS12045TV	0.67	60	1000	700	175	ISOTOP
45	2 x 80	STPS16045TV	0.69	80	1000	900	175	ISOTOP
45	2 x 120	STPS24045TV	0.67	120	2000	1500	175	ISOTOP

New products in blue characters

45V and 60V POWER SCHOTTKY DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ I _F		I _R max @25°C (μA)	I _{FSM} (A)	T _J max (°C)	Package
			(V)	(A)				
60	0.5	STPS0560Z	0.50	0.5	50	5.5	150	SOD-123
60	1	STPS160A	0.57	1	4	75	150	SMA
60	1	STPS160U	0.57	1	4	75	150	SMB
60	1	STPS1L60	0.56	1	50	40	150	DO-41
60	3	STPS3L60	0.61	3	150	100	150	DO-201AD
60	3	STPS3L60Q	0.61	3	150	100	150	DO-15
60	3	STPS3L60S	0.65	3	55	75	150	SMC
60	5	STPS5L60	0.53	5	220	150	150	DO-201AD
60	2 x 5	STPS10L60CF	0.52	5	220	180	150	ISOWATT220AB
60	2 x 5	STPS10L60CFP	0.52	5	220	180	150	TO-220FPAB
60	2 x 5	STPS10L60CT	0.52	5	220	180	150	TO-220AB
60	10	STPS10L60D	0.56	10	350	220	150	TO-220AC
60	10	STPS10L60FP	0.56	10	350	220	150	TO-220FPAC
60	2 x 7.5	STPS15L60CB	0.52	7.5	200	75	150	DPAK
60	2 x 10	STPS20L60CG	0.56	10	350	220	150	D ² PAK
60	2 x 10	STPS20L60CR	0.56	10	350	220	150	I ² PAK
60	2 x 10	STPS20L60CT	0.56	10	350	220	150	TO-220AB
60	2 x 15	STPS30L60CR	0.56	15	480	220	150	I ² PAK
60	2 x 15	STPS30L60CT	0.56	15	480	220	150	TO-220AB
60	2 x 15	STPS30L60CW	0.56	15	480	230	150	TO-247
60	2 x 20	STPS41L60CG	0.56	20	240	220	150	D ² PAK
60	2 x 40	STPS80L60CY	0.56	40	1800	400	150	Max247

100V and 150V POWER SCHOTTKY DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ I _F		I _R max @25°C (μA)	I _{FSM} (A)	T _J max (°C)	Package
			(V)	(A)				
100	1	STPS1H100A	0.62	1	1	50	175	SMA
100	1	STPS1H100U	0.62	1	1	50	175	SMB
100	2	STPS2H100A	0.65	2	1	75	175	SMA
100	2	STPS2H100U	0.65	2	1	75	175	SMB
100	5	STPS5H100B	0.61	5	3.5	75	175	DPAK
100	8	STPS8H100D	0.58	8	4.5	250	175	TO-220AC
100	8	STPS8H100F	0.58	8	4.5	250	175	ISOWATT220AC
100	8	STPS8H100FP	0.58	8	4.5	250	175	TO-220FPAC
100	8	STPS8H100G	0.58	8	4.5	250	175	D ² PAK
100	8	STPS8H100R	0.58	8	4.5	250	175	I ² PAK
100	2 x 5	STPS10H100CFP	0.61	5	3.5	180	175	TO-220FPAB
100	2 x 5	STPS10H100CT	0.61	5	3.5	180	175	TO-220AB
100	2 x 7.5	STPS15H100CB	0.67	7.5	3	75	175	DPAK
100	2 x 10	STPS20H100CF	0.64	10	4.5	250	175	ISOWATT220AB
100	2 x 10	STPS20H100CFP	0.64	10	4.5	250	175	TO-220FPAB
100	2 x 10	STPS20H100CG	0.64	10	4.5	250	175	D ² PAK
100	2 x 10	STPS20H100CR	0.64	10	4.5	250	175	I ² PAK
100	2 x 10	STPS20H100CT	0.64	10	4.5	250	175	TO-220AB
100	2 x 15	STPS30H100CW	0.67	15	5	250	175	TO-247
100	2 x 20	STPS40H100CW	0.61	20	10	300	175	TO-247
100	2 x 20	STPS41H100CG	0.67	20	10	220	175	D ² PAK
100	2 x 40	STPS80H100CY	0.70	40	20	600	175	Max247
100	2 x 40	STPS80H100TV	0.65	40	20	700	150	ISOTOP
100	2 x 80	STPS160H100TV	0.68	80	40	1000	150	ISOTOP
150	2 x 5	STPS10150CG	0.75	5	2	120	175	D ² PAK
150	2 x 5	STPS10150CT	0.75	5	2	120	175	TO-220AB
150	2 x 8	STPS16150CG	0.75	8	3	150	175	D ² PAK
150	2 x 8	STPS16150CR	0.75	8	3	150	175	I ² PAK
150	2 x 8	STPS16150CT	0.75	8	3	150	175	TO-220AB
150	2 x 10	STPS20150CG	0.75	10	5	180	175	D ² PAK
150	2 x 10	STPS20150CR	0.75	10	5	180	175	I ² PAK
150	2 x 10	STPS20150CT	0.75	10	5	180	175	TO-220AB
150	2 x 15	STPS30150CT	0.75	15	6.5	220	175	TO-220AB
150	2 x 15	STPS30150CW	0.75	15	6.5	220	175	TO-247

200V ULTRAFAST DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ Rated Current (V)	t _{rr} max (ns)	I _R max @25°C (μA)	I _{FSM} (A)	T _J max (°C)	Package
200	1	SMBYW01-200	0.71	35	3	60	150	SMB
200	1	STPR120A	0.71	35	3	60	150	SMA
200	1	STTH102	0.78	20	1	50	175	DO-41
200	1.5	BYW100-200	0.85	35	10	50	150	DO-15
200	1.5	STTH152	0.75	32	1.5	80	175	DO-15
200	2	SMBYW02-200	0.85	35	10	50	150	SMB
200	3	BYW98-200	0.85	35	10	70	150	DO201-AD
200	3	STTH302	0.75	35	3	130	175	DO201-AD
200	4	SMBYW04-200	0.85	35	10	70	150	SMC
200	5	STPR520D	0.99	30	50	50	150	TO-220AC
200	5	STPR520F	0.99	30	50	50	150	ISOWATT220AC
200	5	STPR520FP	0.99	30	50	50	150	TO-220FPAC
200	2 x 3	STPR620CT	0.99	30	50	30	150	TO-220AB
200	8	BYW29-200	0.85	35	10	80	150	TO-220AC
200	8	BYW29F-200	0.85	35	10	80	150	ISOWATT220AC
200	8	BYW29FP-200	0.85	35	10	80	150	TO-220FPAC
200	8	BYW29G-200	0.85	35	10	80	150	D ² PAK
200	8	STPR820D	0.99	30	50	80	150	TO-220AC
200	8	STPR820F	0.99	30	50	80	150	ISOWATT220AC
200	8	STPR820FP	0.99	30	50	80	150	TO-220FPAC
200	10	BYW80-200	0.85	35	10	100	150	TO-220AC
200	10	BYW80F-200	0.85	35	10	100	150	ISOWATT220AC
200	10	BYW80FP-200	0.85	35	10	100	150	TO-220FPAC
200	10	BYW80PI-200	0.85	35	10	100	150	TO-220AC Ins.
200	2 x 5	STPR1020CB	0.99	30	10	50	150	IPAK
200	2 x 5	STPR1020CF	0.99	30	10	50	150	ISOWATT220AB
200	2 x 5	STPR1020CFP	0.99	30	10	50	150	TO-220FPAB
200	2 x 5	STPR1020CR	0.99	30	10	50	150	I ² PAK
200	2 x 5	STPR1020CT	0.99	30	10	50	150	TO-220AB
200	15	BYW81P-200	0.85	40	20	200	150	TO-220AC
200	15	BYW81PI-200	0.85	40	20	200	150	TO-220AC Ins.
200	15	STPR1520D	0.99	30	50	150	150	TO-220AC
200	2 x 8	STPR1620CG	0.99	30	50	80	150	D ² PAK
200	2 x 8	STPR1620CR	0.99	30	50	80	150	I ² PAK
200	2 x 8	STPR1620CT	0.99	30	50	80	150	TO-220AB
200	2 x 10	BYW51-200	0.85	35	15	100	150	TO-220AB
200	2 x 10	BYW51F-200	0.85	35	15	100	150	ISOWATT220AB
200	2 x 10	BYW51FP-200	0.85	35	15	100	150	TO-220FPAB
200	2 x 10	BYW51G-200	0.85	35	15	100	150	D ² PAK
200	2 x 10	BYW51R-200	0.85	35	15	100	150	I ² PAK
200	25	BYW77G-200	0.85	50	25	500	150	D ² PAK
200	25	BYW77P-200	0.85	50	25	500	150	SOD-93
200	25	BYW77PI-200	0.85	50	25	500	150	DOP3 Ins.
200	2 x 15	BYW99P-200	0.85	40	20	200	150	SOT-93
200	2 x 15	BYW99PI-200	0.85	40	20	200	150	TOP3 Ins.
200	2 x 15	BYW99W-200	0.85	40	20	200	150	TO-247
200	2 x 30	BYV52-200	0.85	50	25	500	150	SOT-93
200	2 x 30	BYV52PI-200	0.85	50	25	500	150	TOP3 Ins.
200	2 x 50	BYV541V-200	0.85	60	50	1000	150	ISOTOP
200	2 x 50	BYV54V-200	0.85	60	50	1000	150	ISOTOP
200	2 x 100	BYV255V-200	0.85	80	100	1600	150	ISOTOP

New products in blue characters



300V ULTRAFAST DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ Rated Current (V)	t _{rr} max (ns)	I _R max @25°C (μA)	I _{FSM} (A)	T _j max (°C)	Package
300	8	STTH803D	1	35	20	100	175	TO-220AC
300	8	STTH803G	1	35	20	100	175	D ² PAK
300	8	STTH8R03D	1.3	30	10	100	150	TO-220AC
300	8	STTH8R03G	1.3	30	10	100	150	D ² PAK
300	2 x 10	STTH2003CF	1	35	20	110	175	ISOWATT220AB
300	2 x 10	STTH2003CG	1	35	20	110	175	D ² PAK
300	2 x 10	STTH2003CR	1	35	20	110	175	I ² PAK
300	2 x 10	STTH2003CT	1	35	20	110	175	TO-220AB
300	2 x 15	STTH3003CW	1	40	40	140	175	TO-247
300	2 x 15	STTH30R03CG	1.4	30	20	140	150	D ² PAK
300	2 x 15	STTH30R03CW	1.4	30	20	140	150	TO-247
300	2 x 30	STTH6003CW	1	55	60	300	175	TO-247
300	2 x 30	STTH6003TV1	1	55	60	400	150	ISOTOP
300	2 x 40	STTH8003CY	1	60	80	400	150	Max247
300	2 x 60	STTH12003TV1	1	70	120	600	150	ISOTOP
300	2 x 80	STTH16003TV1	0.95	80	200	800	150	ISOTOP
300	2 x 100	STTH20003TV1	0.95	90	200	1000	150	ISOTOP

400V & 1000V ULTRAFAST DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ Rated Current (V)	t _{rr} max (ns)	I _R max @25°C (μA)	I _{FSM} (A)	T _j max (°C)	Package
400	1	BYT01-400	1.4	55	10	30	150	DO-15
400	1	SMBYT01-400	1.4	60	10	30	150	SMB
400	3	BYT03-400	1.4	55	20	60	150	DO201-AD
400	3	SMBYT03-400	1.4	60	20	60	150	SMC
400	8	BYT08P-400	1.4	75	15	100	150	TO-220AC
400	8	BYT08PI-400	1.4	75	15	100	150	TO-220AC Ins.
400	2 x 8	BYT16P-400	1.4	75	15	100	150	TO-220AB
400	30	BYT30G-400	1.4	100	30	350	150	D ² PAK
400	30	BYT30P-400	1.4	100	30	350	150	SOD-93
400	30	BYT30PI-400	1.4	100	30	350	150	DOP3 Ins.
400	2 x 30	BYT230PIV-400	1.4	100	35	350	150	ISOTOP
400	2 x 30	BYT230Y-400	1.4	100	35	300	150	Max247
400	2 x 30	BYT231PIV-400	1.4	100	35	350	150	ISOTOP
400	60	BYT60P-400	1.4	100	60	550	150	SOD-93
400	2 x 60	BYT261PIV-400	1.4	100	60	600	150	ISOTOP
400	2 x 100	BYT200PIV-400	1.4	100	120	600	150	ISOTOP
1000	8	BYT08P-1000	1.8	155	35	50	150	TO-220AC
1000	12	BYT12P-1000	1.8	155	50	75	150	TO-220AC
1000	12	BYT12PI-1000	1.8	155	50	75	150	TO-220AC Ins.
1000	30	BYT30P-1000	1.8	165	100	200	150	SOD-93
1000	30	BYT30PI-1000	1.8	165	100	200	150	DOP3 Ins.
1000	2 x 30	BYT230PIV-1000	1.8	165	100	200	150	ISOTOP
1000	2 x 30	BYT231PIV-1000	1.8	165	100	200	150	ISOTOP
1000	60	BYT60P-1000	1.8	170	120	400	150	SOD-93
1000	2 x 60	BYT261PIV-1000	1.8	170	60	400	150	ISOTOP

600V, 800V & 1000V DIODE BRIDGES

Voltage max (V)	Current (A)	P / N	V _F max @ Rated Current (V)	Freq. (Hz)	I _R max @25°C (μA)	I _{FSM} (A)	T _j max (°C)	Package
600	4	STBR406	1.05	50-60	5	120	150	GBU
800	4	STBR408	1.05	50-60	5	120	150	GBU
600	6	STBR606	1.05	50-60	5	175	150	GBU
800	6	STBR608	1.05	50-60	5	175	150	GBU
1000	35	BF3510TV	1.3	50-60	10	300	150	ISOTOP

PEAKCLAMP: MOSFET SNUBBER

VBR @ 1mA (V)	Voltage max (V)	P / N	P _p (10/1000µs) (W)	Rd max @ 125°C (Ω)	I _R max @ 25° C (µA)	V _{FP} @ 125° C (V)	T _j max (°C)	Package
160	700	PKC-136	600	4	3	18	150	DO-15

600V & 1200V TURBOSWITCH DIODES

Voltage max (V)	Current (A)	P / N	V _f max @ Rated Current (V)	trr typ (ns)	I _R max @ 25° C (µA)	I _{FSM} (A)	T _j max (°C)	Package
600	1	STTA106U	1.5	20	10	25	125	SMB
600	2	STTA206S	1.5	20	20	35	125	SMC
600	3	STTA306B	1.65	20	20	35	125	DPAK
600	4	STTA406	1.5	25	50	80	125	DO-201AD
600	5	STTA506B	1.5	20	100	55	150	DPAK
600	5	STTA506D	1.5	20	100	55	150	TO-220AC
600	5	STTA506F	1.5	20	100	55	150	ISOWATT220AC
600	8	STTA806D	1.5	25	100	90	150	TO-220AC
600	8	STTA806DI	1.5	25	100	90	150	TO-220AC Ins.
600	8	STTA806G	1.5	25	100	90	150	D ² PAK
600	12	STTA1206D	1.5	28	100	110	150	TO-220AC
600	12	STTA1206DI	1.5	28	100	110	150	TO-220AC Ins.
600	20	STTA2006P	1.5	30	100	180	150	SOD-93
600	20	STTA2006PI	1.5	30	100	180	150	DOP3 Ins.
600	2 x 15	STTA3006CW	1.6	35	100	130	150	TO-247
600	30	STTA3006P	1.5	35	150	230	150	SOD-93
600	30	STTA3006PI	1.5	35	150	230	150	DOP3 Ins.
600	2 x 30	STTA6006TV1	1.5	35	150	230	150	ISOTOP
600	2 x 30	STTA6006TV2	1.5	35	150	230	150	ISOTOP
600	2 x 60	STTA12006TV1	1.5	45	200	500	150	ISOTOP
1200	1	STTA112U	1.5	65	10	10	125	SMB
1200	2	STTA212S	1.5	65	20	20	125	SMC
1200	3	STTA312B	1.7	65	20	25	125	DPAK
1200	5	STTA512B	2	45	100	45	150	DPAK
1200	5	STTA512D	2	45	100	45	150	TO-220AC
1200	8	STTA812D	2	50	100	70	150	TO-220AC
1200	8	STTA812DI	2	50	100	70	150	TO-220AC Ins.
1200	12	STTA1212D	2	50	100	70	150	TO-220AC
1200	15	STTA1512P	1.9	55	100	150	150	SOD-93
1200	15	STTA1512PI	1.9	150	100	150	150	DOP3 Ins.
1200	25	STTA2512P	1.9	150	100	210	150	SOD-93

New products in blue characters



600V TURBO2 DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ Rated Current (V)	t _{rr} max (ns)	I _R max @25°C (μA)	I _{FSM} (A)	T _j max (°C)	Package
600	1	STTH106	1.25	25	1	25	175	DO-41
600	1	STTH1L06	1.05	80	1	30	175	DO-41
600	1	STTH1L06U	1.05	80	1	30	175	SMB
600	3	STTH306	1.25	30	3	55	175	DO-201AD
600	3	STTH3L06	1.05	85	3	80	175	DO-201AD
600	5	STTH5L06	1.05	95	5	110	175	DO-201AD
600	5	STTH5L06D	1.05	95	5	90	175	TO-220AC
600	5	STTH5R06D	1.8	40	20	50	175	TO-220AC
600	5	STTH5R06FP	1.8	40	20	50	175	TO-220FPAC
600	8	STTH8L06D	1.05	105	8	120	175	TO-220AC
600	8	STTH8L06FP	1.05	105	8	120	175	TO-220FPAC
600	8	STTH8R06D	1.8	45	30	80	175	TO-220AC
600	8	STTH8R06FP	1.8	45	30	80	175	TO-220FPAC
600	8	STTH8R06G	1.8	45	30	80	175	D ² PAK
600	8	STTH8R06R	1.8	45	30	80	175	I ² PAK
600	12	STTH12R06D	1.8	45	45	100	175	TO-220AC
600	12	STTH12R06FP	1.8	45	45	100	175	TO-220FPAC
600	15	STTH15R06D	1.8	50	60	120	175	TO-220AC
600	15	STTH15R06FP	1.8	50	60	120	175	TO-220FPAC
600	2 x 15	STTH30R06CW	1.8	50	60	120	175	TO-247

TANDEM DIODES

Voltage max (V)	Current (A)	P / N	V _F max @ Rated Current (V)	t _{rr} max (ns)	I _R max @25°C (μA)	I _{FSM} (A)	T _j max (°C)	Package
600	8	STTH806TTI	2.6	30	10	80	150	TO-220AB Ins.
600	15	STTH1506TPI	2.6	35	20	120	150	TOP3 Ins.

DAMPER DIODES

Voltage max (V)	Current (A)	P / N	Monitor Frequency	V _F max (V)	t _{rr} max (ns)	I _R max @ 25° C (μA)	T _j max (°C)	Package
1500	4	DTV1500LFP	Low	1.5 @ 4 A	170	100	150	TO-220FPAC
1500	6	DTV1500MD	Medium	1.65 @ 6 A	135	100	150	TO-220AC
1500	6	DTV1500MF	Medium	1.65 @ 6 A	135	100	150	ISOWATT220AC
1500	6	DTV1500MFP	Medium	1.65 @ 6 A	135	100	150	TO-220FPAC
1500	6	DTV1500HD	High	1.7 @ 6 A	125	100	150	TO-220AC
1500	6	DTV1500HF	High	1.7 @ 6 A	125	100	150	ISOWATT220AC
1500	6	DTV1500HFP	High	1.7 @ 6 A	125	100	150	TO-220FPAC
1500	6	DTV1500UHF	Ultra High	1.3 @ 6 A	125	100	150	ISOWATT220AC
1500	6	DTV1500UHFP	Ultra High	1.3 @ 6 A	125	100	150	TO-220FPAC

DAMPER + MODULATION DIODES

Voltage max (V)	Current (A)	P / N	Monitor Frequency	V _F max (V)	t _{rr} max (ns)	I _R max @ 25° C (μA)	T _j max (°C)	Package
1500 / 600*	4 / 3*	DMV1500L	Low	1.5 @ 4 A / 1.4 @ 3A*	170 / 50*	100 / 20*	150	TO-220AB Ins.
1500 / 600*	6 / 3*	DMV1500M	Medium	1.65 @ 6 A / 1.4 @ 3A*	135 / 50*	100 / 20*	150	TO-220AB Ins.
1500 / 600*	6 / 3*	DMV1500H	High	1.7 @ 6 A / 1.4 @ 3A*	125 / 50*	100 / 20*	150	TO-220AB Ins.

*Damper / Modulation parameter

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RF DIODES - DETECTION

Voltage max (V)	Current (mA)	P / N	V _F max @ I _F		I _R max @ 25°C (μA)	C typ @ 1 MHz, 0V (pF)	tr @ I _F = 25mA (ps)	Package
			(V)	(mA)				
70	70	BAS70-07S	0.41	1	10	2	100 (typ)	SOT323-6L
70	70	BAS70-08S	0.41	1	10	2	100 (typ)	SOT323-6L
15	-	STDD15-05WFILM	0.56	10	0.5	1	-	SOT-323
15	-	STDD15-07SFILM	0.56	10	0.5	1	-	SOT323-6L

RF DIODES - PIN

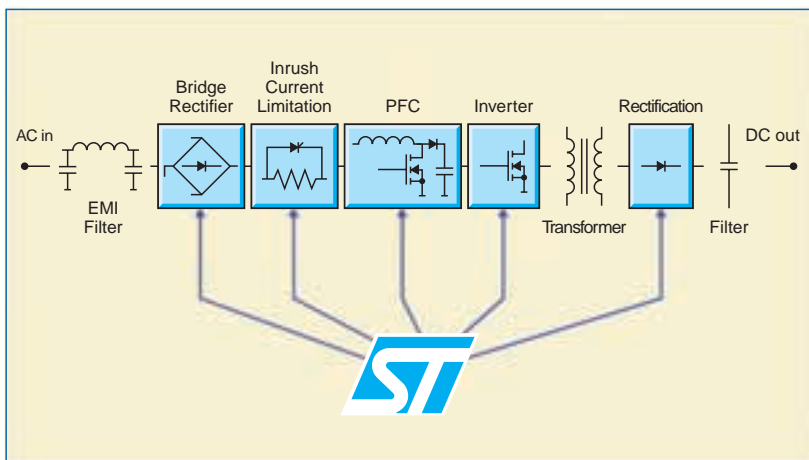
Voltage max (V)	Current (mA)	P / N	V _F max @ I _F		I _R max @ 25°C (μA)	C typ @ 1 MHz, 0V (pF)	tr @ I _F = 10mA (ps)	Package
			(V)	(mA)				
50	100	BAR63FILM*	1.2	100	0.05	0.3	75 (typ)	SOT-23
50	100	BAR63JFILM*	1.2	100	0.05	0.3	75 (typ)	SOD-323

*Available in Q4-2002

RF DIODES - VARICAP

Voltage max (V)	Current (mA)	P / N	C typ @ F=1 MHz, 0.25V (pF)	C ratio (0.25V/2.7V)	I _R max @ 25°C (μA)	rf typ @ F=100MHz (Ω)	Ls typ @ F=100 MHz (nH)	Package

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SMPS Block Diagram



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