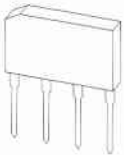


# Rectifier Diodes

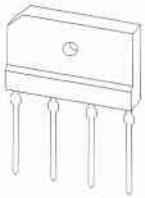
## SIP Bridge Diodes



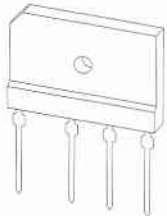
1V



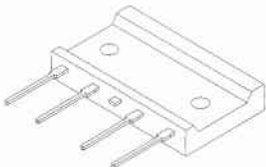
2S



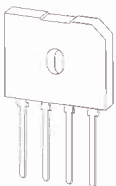
3S



5S



TSB(4PIN)



D6K

Type No.	Absolute Maximum Ratings						Electrical Characteristics							Remarks	Outline											
	I <sub>o</sub> [A]	Conditions T <sub>c</sub> [°C]	I <sub>FSM</sub> [A]	V <sub>RM</sub> [V]	T <sub>stg</sub> [°C]	T <sub>J</sub> [°C]	V <sub>F</sub> (max) [V]	Conditions I <sub>F</sub> [A]	I <sub>R</sub> (max) [μA] V <sub>R</sub> =V <sub>RM</sub>	θ <sub>jl</sub> (max) [°C/W]	θ <sub>ja</sub> (max) [°C/W]	θ <sub>jc</sub> (max) [°C/W]	Package		Fig.											
S1VB20	1	25*1	30	200	-40 to 150	150	1.05	0.5	10	16	62	—	—	1V	55											
S1VB60				600																						
S1VB80				800																						
S1VBA20	1	25*1	50	200	-40 to 150	150	1.05	0.5	10	16	62	—	Large I <sub>FSM</sub>	1V	55											
S1VBA60				600																						
D2SBA20				1.5												25*1	60	200	-40 to 150	150	1.05	0.75	10	10	47	—
D2SBA60	600																									
D2SB20	200																									
D2SB60	1.5	25*1	80	600	-40 to 150	150	1.05	0.75	10	10	47	—	—	2S	56											
D2SB80				800																						
D2SB60L				600																						
D2SB60A	2	115*2	120	600	-40 to 150	150	0.95	1	10	10	47	—	—	2S	56											
D2SB80A	2	115*2	800	0.95			1																			
D3SBA20	4	108	80	200			-40 to 150	150								1.05	2	10	6	30	5.5	UL <sup>®</sup>	3S	57		
D3SBA60				600																						
D3SB20				200																						
D3SB60	4	108	120	600	-40 to 150	150	1.05	2	10	6	30	5.5	UL <sup>®</sup>	3S	57											
D3SB80				800																						
D4SB60L				4												111	600	-40 to 150	150	0.95	2	10	6	30	5.5	UL <sup>®</sup>
D4SB80	108	800																								
D5SBA20	6	110	120	200	-40 to 150	150	1.05	3	10	5	26	3.4	UL <sup>®</sup>	5S	58											
D5SBA60				600																						
D5SB20				200																						
D5SB60	6	110	170	600	-40 to 150	150	1.05	3	10	5	26	3.4	UL <sup>®</sup>	5S	58											
D5SB80				800																						
D5SB80				800																						
D6SB60L	6	112	600	-40 to 150	150	1.05	3	10	5	26	3.4	UL <sup>®</sup>	5S	58												
D6SB80		110	800																							
D10XB20	10	100	120	200	-40 to 150	150	1.1	5	10	6	26	2.3	UL <sup>®</sup>	3S	57											
D10XB60				600																						
D10XB80				800																						
D10XB20H				200																						
D10XB60H				600																						
D15XB20	15	100	200	200	-40 to 150	150	1.1	7.5	10	5	22	1.5	UL <sup>®</sup>	5S	58											
D15XB60				600																						
D15XB80				800																						
D15XB20H				200																						
D15XB60H				600																						
D15XB60H	107	240	600	-40 to 150	150	1.05	7.5	10	5	22	1.5	UL <sup>®</sup>	5S	58												
D20XB20	20	87	240												200	-40 to 150	150	1.1	10	10	5	22	1.5	UL <sup>®</sup>	5S	58
D20XB60															600											
D20XB80															800											
D25XB20	25	98	350												200	-40 to 150	150	1.05	12.5	10	5	22	1.0	UL <sup>®</sup>	5S	58
D25XB60				600																						
D25XB80				800																						
☆D50XB80	50	95	600	800	-40 to 150	150	1.05	25	10	—	16	0.5	UL <sup>®</sup>	TSB (4PIN)	59											
☆US4KB80R	4	125	150	800	-55 to 150	150	1.0	2	10	5.0	35	3.5	UL <sup>®</sup>	D6K	53											
☆US6KB80R	6	116	175	800				3				3.0														
☆US8KB80R	8	108	200	800				4				2.8														
☆US10KB80R	10	100	150	800				5				2.5														
☆US15KB80R	15	101	200	800	-55 to 150	150	1.1	7.5	10	5.0	35	1.5	UL <sup>®</sup>	D6K	53											
☆US30KB80R	30	97	350	800				15				0.8														

☆: New product      \* 1: Ta      \* 2: Tj  
 UL<sup>®</sup>: UL recognized (UL File No.E142422)

## DIP Bridge Diodes



1Z (SMD)



1Z (THD)



1N/1NA (SMD)



1N/1NA (THD)



1W (SMD)



1W (THD)



1Y (THD)

Type No.	Absolute Maximum Ratings						Electrical Characteristics						Outline	
	I <sub>o</sub> [A]	Conditions T <sub>a</sub> [°C]	IFSM [A]	VRM [V]	Tstg [°C]	T <sub>j</sub> [°C]	V <sub>F</sub> (max) [V]	Conditions I <sub>F</sub> [A]	I <sub>R</sub> (max) [μA]	θ <sub>j</sub> (max) [°C/W]	θ <sub>ja</sub> (max) [°C/W]	Remarks	Package	Fig.
S1YB20	0.4	40	30	200	-40 to 150	150	1.05	0.2	10	—	150	—	1Y	22-1
S1YB60				600										
S1ZB20	0.8	25	30	200	-40 to 150	150	1.05	0.4	10	20	76	—	1Z	* 1
S1ZB60				600										
S1ZB80				800										
D1UBA80	1	25	30	800	-55 to 150	150	0.95	0.4	10	25	62.5	—	SOPA-4	33
S1NB20	1	25	30	200	-40 to 150	150	1.05	0.5	10	15	68	—	1N	* 2
S1NB60				600										
S1NB80				800										
S1NBB80	1	26	50	800	-40 to 150	150	1.05	0.5	10	15	68	—	1NA	* 3
S1WB(A)20	1	25	30	200	-40 to 150	150	1	0.5	10	10	65	—	1W	* 4
S1WB(A)60			600											
S1WB(A)80			30	800										
S1WB(A)60B			50	600										
S1NBC60	1.5	105*5	60	600	-55 to 150	150	1.05	0.75	10	15	68	Large IFSM	1NA	* 3
S1NBC80				600										

\* 1: SMD Package Fig.23-1; THD Package Fig.24  
\* 3: SMD Package Fig.27-1; THD Package Fig.28

\* 2: SMD Package Fig.25; THD Package Fig.26  
\* 4: SMD Package Fig.29; THD Package Fig.30

\* 5: T/

## Low Noise Bridge Diodes



1W (THD)



1W (SMD)



1V



2S



3S

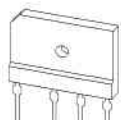
Type No.	Absolute Maximum Ratings						Electrical Characteristics						Outline					
	I <sub>o</sub> [A]	Conditions T <sub>c</sub> [°C]	IFSM [A]	VRM [V]	Tstg [°C]	T <sub>j</sub> [°C]	V <sub>F</sub> (max) [V]	Conditions I <sub>F</sub> [A]	I <sub>R</sub> (max) [μA]	t <sub>rr</sub> (max) [μS]	θ <sub>j</sub> (max) [°C/W]	θ <sub>ja</sub> (max) [°C/W]	θ <sub>jc</sub> (max) [°C/W]	Remarks	Package	Fig.		
LN1WBA60	1.1	25*1	50	600	-40 to 150	150	1.0	0.55	10	5	10	65	—	—	1W	* 2		
LN1VB60	1.2	25*1	50				1.0	0.6			16	62	—	—	1V	55		
LN2SB60	1.6	25*1	120				1.0	0.8			10	47	—	—	2S	56		
LN4SB60	4	111	150				0.95	2			6	30	5.5	UL <sup>®</sup>	3S	57		
LN6SB60	6	111	170				1.05	3			5	26	3.4	UL <sup>®</sup>	5S	58		
LN15XB60	15	100	200				-55 to 150	150			1.1	7.5	5	23	1.5	—	5S	58
LN15XB60H		106	290															
LN25XB60	25	85	350				-55 to 150	150			1.05	12.5	5	23	1.3	—	5S	58

\* 1: Ta

\* 2: SMD Package Fig.29; THD Package Fig.30

UL<sup>®</sup>: UL recognized (UL File No. E142422)

## Low V<sub>F</sub> Bridge Diodes



5S

Type No.	Absolute Maximum Ratings						Electrical Characteristics						Outline						
	I <sub>o</sub> [A]	Conditions T <sub>c</sub> [°C]	IFSM [A]	IFSM1* [A]	I <sub>2t</sub> [A]	VRM [V]	Tstg [°C]	T <sub>j</sub> [°C]	V <sub>F</sub> (max) [V]	V <sub>F</sub> (typ) [V]	Conditions I <sub>F</sub> [A]	I <sub>R</sub> (max) [μA]	t <sub>rr</sub> (max) [μS]	θ <sub>j</sub> (max) [°C/W]	θ <sub>ja</sub> (max) [°C/W]	θ <sub>jc</sub> (max) [°C/W]	Remarks	Package	Fig.
☆LL15XB60	15	124	200	630	200	600	-55 to 150	150	0.90	0.86	7.5	10	3	5	25	1	UL <sup>®</sup>	5S	58
☆LL25XB60	25	113	300	945	450	600	-55 to 150	150	0.92	0.87	12.5	10	3	5	25	0.8	—	—	—

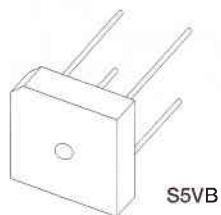
☆: New product

\*: IFSM1: Pulse width 1ms

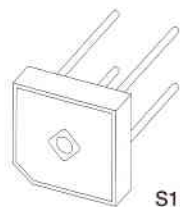
UL<sup>®</sup>: UL recognized (UL File No. E142422)

# Rectifier Diodes

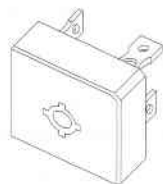
## SQIP Bridge Diodes



S5VB



S10VB



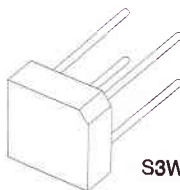
S15VB

Type No.	Absolute Maximum Ratings						Electrical Characteristics						Outline	
	$I_o$ [A]	Conditions $T_a$ [°C]	$I_{FSM}$ [A]	$V_{RM}$ [V]	$T_{stg}$ [°C]	$T_j$ [°C]	$V_F$ (max) [V]	Conditions $I_F$ [A]	$I_R$ (max) $V_R=V_{RM}$ [μA]	$\theta_{jI}$ (max) [°C/W]	$\theta_{ja}$ (max) [°C/W]	$\theta_{jc}$ (max) [°C/W]	Package	Fig.
S2VB20	2	40	40	200	-40 to 150	150	1.05	1	10	7	-	-	S2VB	61
S2VB60				600										
S4VB20	4*1	40	80	200	-40 to 150	150	1.05	2	10	4.5	-	-	S4VB	62
S4VB60				600										
S5VB20	6*1	40	200	200	-40 to 150	150	1.05	3	10	3	-	-	S5VB	63
S5VB60				600										
S10VB20	10*1	40	200	200	-40 to 150	150	1.05	5	10	2.8	-	-	S10VB	64
S10VB60				600										
S15VB20	15*1	83*2	200	200	-40 to 150	150	1.05	7.5	10	-	-	2.3	S15VB	65
S15VB60				600										
S25VB20	25*1	85*2	400	200	-40 to 150	150	1.05	12.5	10	-	-	1.5	S25VB	66
S25VB60				600										
S25VB80				800										
S50VB60	50*1	95*2	500	600	-40 to 150	150	1.05	25	10	-	-	0.5	S50VB	67
S50VB80				800										

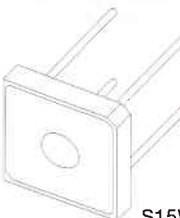
\* 1: With heatsink

\* 2:  $T_c$

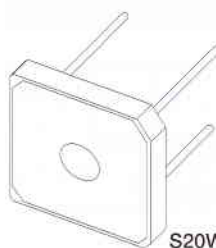
## Input/Output In-line Terminal Type



S3WB



S15WB



S20WB

Type No.	Absolute Maximum Ratings						Electrical Characteristics						Outline	
	$I_o$ [A]	Conditions $T_c$ [°C]	$I_{FSM}$ [A]	$V_{RM}$ [V]	$T_{stg}$ [°C]	$T_j$ [°C]	$V_F$ (max) [V]	Conditions $I_F$ [A]	$I_R$ (max) $V_R=V_{RM}$ [μA]	$\theta_{jI}$ (max) [°C/W]	$\theta_{ja}$ (max) [°C/W]	$\theta_{jc}$ (max) [°C/W]	Package	Fig.
S3WB20	2.3	40*	120	200	-40 to 150	150	1.05	2	10	5.5	26.5	-	S3WB	68
S3WB60				600										
S10WB20	10	74	170	200	-40 to 150	150	1.05	5	10	4	24	3.9	S10WB	69
S10WB60				600										
S15WB20	15	77	200	200	-40 to 150	150	1.05	7.5	10	2	19	2.5	S15WB	70
S15WB60				600										
S20WB20	20	76	500	200	-40 to 150	150	1.05	10	10	2	17	2	S20WB	71
S20WB60				600										
S20WB80				800										

\* :  $T_a$