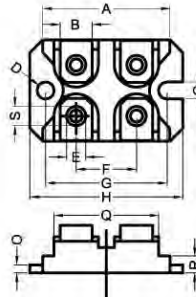
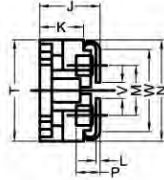
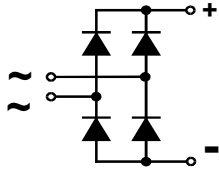


S1PDB40**S

Single Phase Bridge Rectifier Modules



M4 screws (4x) supplied

Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	31.50	31.88	1.240	1.255
B	7.80	8.20	0.307	0.323
C	4.09	4.29	0.161	0.169
D	4.09	4.29	0.161	0.169
E	4.09	4.29	0.161	0.169
F	14.91	15.11	0.587	0.595
G	30.12	30.30	1.186	1.193
H	37.80	38.30	1.489	1.509
J	11.68	12.22	0.460	0.481
K	8.92	9.60	0.351	0.378
L	0.76	0.84	0.030	0.033
M	12.60	12.85	0.496	0.506
N	25.15	25.42	0.990	1.001
O	1.98	2.13	0.078	0.084
P	4.95	5.97	0.195	0.235
Q	26.54	26.90	1.045	1.059
R	3.94	4.42	0.155	0.174
S	4.72	4.85	0.186	0.191
T	24.59	25.07	0.968	0.987
U	-0.05	0.1	-0.002	0.004
V	3.30	4.57	0.130	0.180
W	0.780	0.830	0.031	0.033

Type	V _{RSM} V	V _{RRM} V
S1PDB40N08S	900	800
S1PDB40N10S	1100	1000
S1PDB40N12S	1300	1200
S1PDB40N14S	1500	1400
S1PDB40N16S	1700	1600
S1PDB40N18S	1900	1800

Symbol	Test Conditions	Maximum Ratings	Unit
I_{dav}	T _C =110°C, diode	20	A
I_{dav}	T _A =45°C (R _{thCA} =0.6K/W), module	40	
I_{FSM}	T _{VJ} =45°C V _R =0	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	A
	T _{VJ} =T _{VJM} V _R =0	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	
I²t	T _{VJ} =45°C V _R =0	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	A ² s
	T _{VJ} =T _{VJM} V _R =0	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	
T_{vj} T_{vjm} T_{stg}		-40...+150 150 -40...+125	°C
V_{ISOL}	50/60Hz, RMS I _{ISOL} ≤1mA	2500	V~
M_d	Mounting torque (M4)	1.5	Nm
	Terminal connection torque (M4)	1.5	
Weight	typ.	30	g

Sirectifier®

S1PDB40**S

Single Phase Bridge Rectifier Modules

Symbol	Test Conditions	Characteristic Values	Unit
I_R	$V_R=V_{RRM}; T_{VJ}=25^{\circ}C$ $V_R=V_{RRM}; T_{VJ}=T_{VJM}$	≤ 0.3 ≤ 5	mA
V_F	$I_F=20A; T_{VJ}=25^{\circ}C$	≤ 1.15	V
V_{TO}	For power-loss calculations only	0.8	V
r_T	$T_{VJ}=T_{VJM}$	13	$m\Omega$
R_{thJC}	per diode per module	1.7 0.42	K/W
R_{thCH}	per diode per module	0.3 0.08	K/W
d_s	Creeping distance on surface	8	mm
d_A	Creepage distance in air	4	mm
a	Max. allowable acceleration	50	m/s^2

FEATURES

- * Package with screw terminals
- * Isolation voltage 3000 V~
- * Glass passivated chips
- * Blocking voltage up to 1800 V
- * Low forward voltage drop

APPLICATIONS

- * Supplies for DC power equipment
- * Input rectifiers for PWM inverter
- * Battery DC power supplies
- * Field supply for DC motors

ADVANTAGES

- * Easy to mount with two screws
- * Space and weight savings
- * Improved temperature and power cycling

Sirectifier[®]