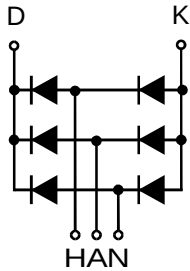
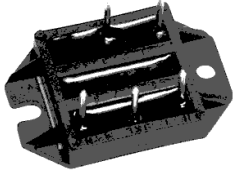
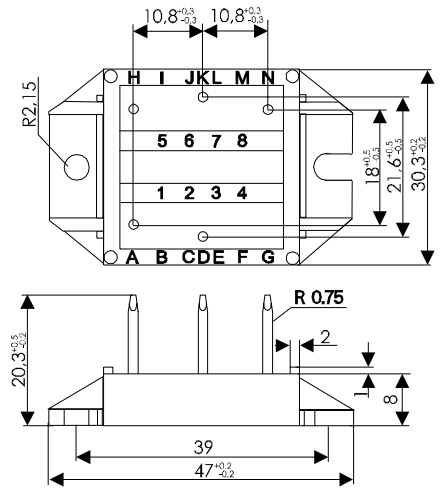


Three Phase Rectifier Modules



Type	V_{RSM}	V_{RRM}
	V	V
S3PDB25N08	900	800
S3PDB25N12	1300	1200
S3PDB25N14	1500	1400
S3PDB25N16	1700	1600
S3PDB25N18	1900	1800

Dimensions in mm (1mm=0.0394")



Symbol	Test Conditions	Maximum Ratings	Unit
I_{dav}	T _C =100°C, module	25	A
I_{FSM}	T _{VJ} =45°C	100	A
	t=10ms (50Hz), sine	106	
	V _R =0	85	
	t=8.3ms (60Hz), sine	90	
I²t	T _{VJ} =45°C	50	A ² s
	t=10ms (50Hz), sine	47	
	V _R =0	36	
	t=8.3ms(60Hz), sine	33	
T_{VJ}		-40...+150	°C
T_{VJM}		150	
T_{stg}		-40...+125	
V_{ISOL}	50/60Hz, RMS	2500	V~
	I _{ISOL} ≤1mA	3000	
M_d	Mounting torque (M4)	1.5-2	Nm
		14-18	
Weight	typ.	18	g

S3PDB25

Three Phase Rectifier Modules

Symbol	Test Conditions	Characteristic Values	Unit
I_R	$V_R = V_{RRM}; T_{VJ} = 25^{\circ}\text{C}$ $V_R = V_{RRM}; T_{VJ} = T_{VJM}$	≤ 0.3 ≤ 5	mA
V_F	$I_F = 7\text{A}; T_{VJ} = 25^{\circ}\text{C}$	≤ 1.12	V
V_{TO}	For power-loss calculations only	0.8	V
r_T		40	m Ω
R_{thJC}	per diode; DC current per module	2.3 0.39	K/W
R_{thJH}	per diode; DC current per module	2.8 0.47	K/W
d_s	Creeping distance on surface	11.2	mm
d_A	Creepage distance in air	9.7	mm
a	Max. allowable acceleration	50	m/s ²

FEATURES

- * Package with DCB base plate
- * Isolation voltage 3000 V~
- * Planar passivated chips
- * leads suitable for PCB soldering
- * 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