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TECHNOLOGY GROUP

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SPECIFICATIONS (1)

Input

Part Number	SM-OAC24	SM-OAC24A	SM-ODC5	SM-ODC5A	SM-ODC5F
Nominal Voltage VDC	24	24	5.0	5.0	5.0
Minimum Voltage VDC (2)	18	18	2.75	2.75	2.75
Maximum Voltage VDC	32	32	8.0	8.0	8.0
Drop-out Voltage	1.0	1.0	1.0	1.0	1.0
Maximum Current (3)	13	13	18	18	18
Resistance (4)	2000	2000	250	250	250

Output

Nominal Line Voltage	120 VAC	240 VAC	5-48 VDC	5-150 VDC	5-48 VDC
Minimum Line Voltage	12 VAC	24 VAC	3.0 VDC	3.0 VDC	3.0 VDC
Maximum Line Voltage	140 VAC	280 VAC	60 VDC	250 VDC	60 VDC
Max Off-State Voltage (5)	400 Vpeak	600 Vpeak	60 VDC	250 VDC	60 VDC
Max Off-State Leakage (6)	0.1mArms	0.1mArms	10 uA	10 uA	10 uA
Static Off-State dv/dt (7)	200 V/usec	200 V/usec	N/A	N/A	N/A
Maximum Rated On-State Current (8)	3.5 Arms	3.5 Arms	3.0 A	1.0 A	3.0 A
Minimum On-State Current	50 mArms	50 mArms	10 mA	10 mA	10 mA
Max Surge Current (9)	100 Apeak	100 Apeak	5.0 A	5.0 A	5.0 A
On-State Voltage Drop or Resistance (10)	1.6 V	1.6 V	1.5 V	1.5 V	1.5 V
Maximum Turn-On Time [msec] (13)	8.33	8.33	0.1	0.1	0.025
Maximum Turn-Off Time [msec] (13)	8.33	8.33	0.75	0.75	0.05
Input/Output Isolation Voltage (14)	4000	4000	4000	4000	4000
Input/Output Capacitance	8	8	8	8	8
Operating Temperature Range	-30 to 80°C	-30 to 80°C	-30 to 80°C	-30 to 80°C	-30 to 80°C
Storage Temperature Range	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C
Line Frequency Range	47 to 63	47 to 63	DC	DC	DC
Weight	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)

SPECIFICATIONS (1)

Input

Part Number	SM-ODC5MA	SM-ODC5MC	SM-ODC5ML	SM-ODC24	SM-ODC24A
Nominal Voltage VDC	5.0	5.0	5.0	24	24
Minimum Voltage VDC (2)	2.75	2.75	2.75	18	18
Maximum Voltage VDC	8.0	8.0	8.0	32	32
Drop-out Voltage	1.0	1.0	1.0	1.0	1.0
Maximum Current (3)	18	18	18	13	13
Resistance (4)	250	250	250	2000	2000

Output

Nominal Line Voltage	5-150 VDC	5-90 VDC	5-48 VDC	5-48 VDC	5-150 VDC
Maximum Line Voltage	200 VDC	100 VDC	50 VDC	60 VDC	250 VDC
Max Off-State Voltage (5)	200 VDC	100 VDC	50 VDC	60 VDC	250 VDC
Max Off-State Leakage (6)	10 uA	10 uA	10 uA	10 uA	10 uA
Static Off-State dv/dt (7)	N/A	N/A	N/A	N/A	N/A
Maximum Rated On-State Current (8)	3.0 A	5.0 A	1.0 A	3.0 A	1.0 A
Minimum On-State Current	1.0 mA	1.0 mA	10 mA	10 mA	10 mA
Max Surge Current (9)	10 A	10 A	10 A	5.0 A	5.0 A
On-State Voltage Drop or Resistance (10)	0.25 Ohms	0.10 Ohms	0.05 Ohms	1.5 V	1.5 V
Maximum Turn-On Time [msec] (13)	1.0	1.0	1.0	0.1	0.1
Maximum Turn-Off Time [msec] (13)	0.05	0.05	0.05	0.75	0.75
Input/Output Isolation Voltage (14)	1500	1500	1500	4000	4000
Input/Output Capacitance	8	8	8	8	8
Operating Temperature Range	-30 to 80	-30 to 80°C	-30 to 80°C	-30 to 80°C	-30 to 80°C
Storage Temperature Range	-40 to 80	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C
Line Frequency Range	DC	DC	DC	DC	DC
Weight	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)

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