

Data Base : MIL - HDBK - 217F Notice 1

Environment : GB, 25

Input: 115V

Output: Full Load

Unit : ZPSA20-12

Ver: V11

Date: 2008/1/8

CAT	TYPE	Q'ty		λ_p	$\lambda(\lambda_p * Q'ty)$	%
5.1	Microcircuits	1	IC3	0.0332	0.0332	1.86
6.1	Diode, Fast	1	D1	0.0289	0.0289	1.62
6.1	Diode,General	1	BR1	0.0011	0.0011	0.06
6.1	Diode,General	1	D2	0.0011	0.0011	0.06
6.1	Diode,General	1	D3	0.0011	0.0011	0.06
6.1	Diode, Schottky	1	D4	0.0024	0.0024	0.14
6.1	Voltage Regulator	1	IC2	0.0110	0.0110	0.62
6.1	Diode,Zener	2	ZD1,ZD3	0.0110	0.0220	1.23
6.4	Transistor MOSFET	1	Q1	0.2640	0.2640	14.77
6.11	Optocoupler	1	IC1	0.0715	0.0715	4.00
6.11	Light Emitting Diode	1	LED	0.0013	0.0013	0.07
9.2	Resistor film	1	R1	0.0031	0.0031	0.18
9.2	Resistor film	1	R4	0.0063	0.0063	0.35
9.2	Resistor film	1	R4A	0.0063	0.0063	0.35
9.2	Resistor film	1	R6	0.0034	0.0034	0.19
9.2	Resistor film	1	R6A	0.0034	0.0034	0.19
9.2	Resistor film	1	R11	0.0036	0.0036	0.20
9.2	Resistor film	1	R12	0.0036	0.0036	0.20
9.2	Resistor film	1	R13	0.0031	0.0031	0.18
9.2	Resistor film	1	R14	0.0034	0.0034	0.19
9.2	Resistor film	1	R15	0.0031	0.0031	0.18
9.2	Resistor film	1	R16	0.0032	0.0032	0.18
9.2	Resistor film	1	R17	0.0032	0.0032	0.18
9.2	Resistor film	1	R18	0.0031	0.0031	0.18
9.2	Resistor film	1	R20	0.0031	0.0031	0.18
9.2	Resistor film	1	R21	0.0032	0.0032	0.18
9.2	Resistor film	1	R22	0.0034	0.0034	0.19
9.2	Resistor film	1	R23	0.0034	0.0034	0.19
9.2	Resistor film	1	R24	0.0031	0.0031	0.18
9.2	Resistor film	1	R25	0.0032	0.0032	0.18
9.2	Resistor film	1	ZD2	0.0031	0.0031	0.18
9.8	Resistor thermistor	1	RT1	0.0650	0.0650	3.64
9.9	Resistor Variable	1	VR1	0.1328	0.1328	7.43
10.5	Capacitor metallized	1	Z1	0.0331	0.0331	1.85
10.1	Capacitor ceramic	1	C1	0.0057	0.0057	0.32
10.1	Capacitor ceramic	1	C2	0.0059	0.0059	0.33
10.1	Capacitor ceramic	1	C6A	0.0114	0.0114	0.64
10.1	Capacitor ceramic	1	C10	0.0088	0.0088	0.49
10.1	Capacitor ceramic	1	C11	0.0088	0.0088	0.49

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10.1	Capacitor ceramic	1	C13	0.0043	0.0043	0.24
10.1	Capacitor ceramic	1	C14	0.0056	0.0056	0.31
10.1	Capacitor ceramic	1	CX1	0.0342	0.0342	1.91
10.1	Capacitor ceramic	2	CY1,CY2	0.0114	0.0228	1.28
10.1	Capacitor ceramic	1	CY3	0.0070	0.0070	0.39
10.1	Capacitor ceramic	1	CY4	0.0256	0.0256	1.43
10.14	Capacitor electrolytic	1	C6	0.1048	0.1048	5.87
10.14	Capacitor electrolytic	3	C3,C4,C5	0.2025	0.6074	33.98
10.14	Capacitor electrolytic	1	C9	0.0816	0.0816	4.57
11.1	Transformer	1	T1	0.0661	0.0661	3.70
11.2	Inductive	2	L1,L2	0.0084	0.0167	0.94
22.1	Fuses	1	F1	0.0100	0.0100	0.56
16.1	Circuit Board	1	PCB	0.0005	0.0005	0.03
17.1	Joint hand soldered	4	CN1,CN2	0.0003	0.0011	0.06
17.1	Joint machine soldered	138		0.0001	0.0190	1.07
Component Count =		61		Total FR =	1.7875	
				MTBF =	559,438	Hours
				MTBF=(1/Failure Rate (FR))*10 ⁶ Hours		