

Data Base : MIL - HDBK - 217F Notice 1

Environment : GB, 25°C

Input: 115V

Output: Full Load

Unit : ZPSA100-12

Ver: V10

Date: 2010/5/21

CAT	TYPE	Q'ty		λ_p	$\lambda(\lambda_p*Q'ty)$	%
5.1	Microcircuits	1	IC1	0.0332	0.0332	0.55
5.1	Microcircuits	1	IC3	0.0280	0.0280	0.46
6.1	Diode, Fast	1	D1	0.1219	0.1219	2.03
6.1	Diode, Fast	1	D5	0.1866	0.1866	3.10
6.1	Diode,General	1	BR1	0.0011	0.0011	0.02
6.1	Diode,General	1	D2	0.0011	0.0011	0.02
6.1	Diode,General	1	D3	0.0011	0.0011	0.02
6.1	Diode,General	1	D6	0.0011	0.0011	0.02
6.1	Diode,General	1	D8	0.0011	0.0011	0.02
6.1	Diode,General	1	D9	0.0011	0.0011	0.02
6.1	Diode, Schottky	1	D4	0.0009	0.0009	0.01
6.1	Voltage Regulator	1	IC2	0.0110	0.0110	0.18
6.1	Diode,Zener	4	ZD1,Z1,Z2,Z3	0.0110	0.0440	0.73
6.3	Transistor	1	Q3	0.0004	0.0004	0.01
6.3	Transistor	1	Q5	0.0004	0.0004	0.01
6.3	Transistor	1	Q8	0.0003	0.0003	0.01
6.3	Transistor	1	Q9	0.0003	0.0003	0.01
6.4	Transistor MOSFET	1	Q1	0.5280	0.5280	8.78
6.4	Transistor MOSFET	1	Q7	0.5280	0.5280	8.78
6.4	Transistor MOSFET	1	Q2	0.5280	0.5280	8.78
6.4	Transistor MOSFET	1	Q2A	0.5280	0.5280	8.78
6.4	Transistor MOSFET	1	Q4	0.5280	0.5280	8.78
6.4	Transistor MOSFET	1	Q4A	0.5280	0.5280	8.78
6.11	Optocoupler	2	PH1,PH2	0.0715	0.1430	2.38
9.1	Resistor fixed	1	R1	0.0013	0.0013	0.02
9.1	Resistor fixed	1	R2	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R3	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R4	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R10	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R21	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R22	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R24	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R27	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R39	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R40	0.0011	0.0011	0.02
9.1	Resistor fixed	1	R41	0.0011	0.0011	0.02
9.1	Resistor fixed	1	R42	0.0011	0.0011	0.02
9.1	Resistor fixed	1	R44	0.0008	0.0008	0.01
9.1	Resistor fixed	1	R45	0.0010	0.0010	0.02

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9.1	Resistor fixed	1	D10	0.0008	0.0008	0.01
9.2	Resistor film	1	R6	0.0031	0.0031	0.05
9.2	Resistor film	1	R7	0.0031	0.0031	0.05
9.2	Resistor film	1	R8	0.0035	0.0035	0.06
9.2	Resistor film	1	R11	0.0048	0.0048	0.08
9.2	Resistor film	1	R13	0.0068	0.0068	0.11
9.2	Resistor film	1	R14	0.0051	0.0051	0.08
9.2	Resistor film	1	R16	0.0031	0.0031	0.05
9.2	Resistor film	1	R17	0.0031	0.0031	0.05
9.2	Resistor film	1	R18	0.0068	0.0068	0.11
9.2	Resistor film	1	R19	0.0050	0.0050	0.08
9.2	Resistor film	1	R23	0.0031	0.0031	0.05
9.2	Resistor film	1	R26	0.0032	0.0032	0.05
9.2	Resistor film	1	R28	0.0032	0.0032	0.05
9.2	Resistor film	1	R30	0.0033	0.0033	0.05
9.2	Resistor film	1	R31	0.0031	0.0031	0.05
9.2	Resistor film	1	R32	0.0032	0.0032	0.05
9.2	Resistor film	1	R33	0.0034	0.0034	0.06
9.2	Resistor film	1	R34	0.0031	0.0031	0.05
9.2	Resistor film	1	R37	0.0034	0.0034	0.06
9.2	Resistor film	1	R38	0.0034	0.0034	0.06
9.2	Resistor film	1	R43	0.0032	0.0032	0.05
9.2	Resistor film	1	R46	0.0034	0.0034	0.06
9.2	Resistor film	1	R47	0.0031	0.0031	0.05
9.2	Resistor film	1	R48	0.0031	0.0031	0.05
9.2	Resistor film	1	R49	0.0032	0.0032	0.05
9.2	Resistor film	2	Z4,Z5	0.0031	0.0063	0.10
9.8	Resistor thermistor	1	TH1	0.0650	0.0650	1.08
9.9	Resistor Variable	1	VR1	0.1328	0.1328	2.21
10.5	Capacitor metallized	1	VZ1	0.0331	0.0331	0.55
10.1	Capacitor ceramic	1	C3	0.0067	0.0067	0.11
10.1	Capacitor ceramic	1	C4	0.0128	0.0128	0.21
10.1	Capacitor ceramic	1	C7	0.0072	0.0072	0.12
10.1	Capacitor ceramic	1	C8	0.0066	0.0066	0.11
10.1	Capacitor ceramic	1	C10	0.0612	0.0612	1.02
10.1	Capacitor ceramic	1	C11	0.0301	0.0301	0.50
10.1	Capacitor ceramic	1	C13	0.0101	0.0101	0.17
10.1	Capacitor ceramic	1	C14	0.0147	0.0147	0.24
10.1	Capacitor ceramic	1	C15	0.0081	0.0081	0.13

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10.1	Capacitor ceramic	1	C16	0.0101	0.0101	0.17
10.1	Capacitor ceramic	1	C17	0.0683	0.0683	1.13
10.1	Capacitor ceramic	1	C19	0.0092	0.0092	0.15
10.1	Capacitor ceramic	1	C20	0.0069	0.0069	0.11
10.1	Capacitor ceramic	1	C22	0.0158	0.0158	0.26
10.1	Capacitor ceramic	1	C23	0.0101	0.0101	0.17
10.1	Capacitor ceramic	1	C24	0.0101	0.0101	0.17
10.1	Capacitor ceramic	1	C25	0.0092	0.0092	0.15
10.1	Capacitor ceramic	1	C26	0.0056	0.0056	0.09
10.1	Capacitor ceramic	1	C28	0.0292	0.0292	0.48
10.1	Capacitor ceramic	1	C29	0.0292	0.0292	0.48
10.1	Capacitor ceramic	1	CX1	0.0406	0.0406	0.67
10.1	Capacitor ceramic	2	CY1,CY2	0.0304	0.0607	1.01
10.1	Capacitor ceramic	1	CY3	0.0076	0.0076	0.13
10.1	Capacitor ceramic	1	CY4	0.0304	0.0304	0.50
10.1	Capacitor ceramic	1	CY5	0.0304	0.0304	0.50
10.1	Capacitor ceramic	1	ZD2	0.0061	0.0061	0.10
10.14	Capacitor electrolytic	1	C1	0.4928	0.4928	8.19
10.14	Capacitor electrolytic	1	C5	0.2659	0.2659	4.42
10.14	Capacitor electrolytic	1	C6	0.2659	0.2659	4.42
10.14	Capacitor electrolytic	1	C9	0.2030	0.2030	3.37
11.1	Transformer	1	T1	0.0661	0.0661	1.10
11.2	Inductive	5	L1,L2,L3,L4,L5	0.0084	0.0418	0.69
22.1	Fuses	1	F1	0.0100	0.0100	0.17
16.1	Circuit Board	2	PCB	0.0005	0.0010	0.02
17.1	Joint hand soldered	7	CN1,CN2,J1,J3,J4,J	0.0003	0.0020	0.03
17.1	Joint machine soldered	297		0.0001	0.0410	0.68
Component Count =		121		Total FR =	6.0153	
				MTBF =	166,242	Hours
				MTBF=(1/Failure Rate (FR))*10 ⁶ Hours		