Microsemi Surface Mount Schottky Barrier Rectifiers

RoHS COMPLIANT

Fig. 1 — POWERMITE®

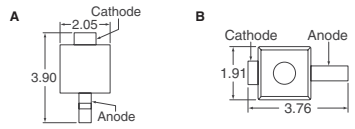

Fig. 2 — POWERMITE®3

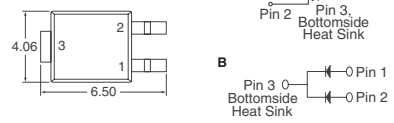

Fig. 3 — PowerDI™5

Fig.	Forward Average Rectified Current (A)	Working Peak Reverse Voltage (V)	Maximum Forward Voltage @ Amps (V)	(A)	Maximum dc Reverse Current @ V_{RWM} (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
						POWERMITE						
1A	1.0	20	0.65	3.0	0.4	UPS120E3CT-ND	.96	8.64	72.00	—	—	—
		20	0.595	2.0	0.01	UPS120EE3CT-ND	1.00	9.00	75.00	UPS120EE3TR-ND	3,000	625.00/M
		40	0.75	3.0	0.4	UPS140E3CT-ND	1.00	9.00	75.00	—	—	—
		40	0.45	1.0	0.4	UPS140CT-ND	5.70	47.50	380.00	—	—	—
1B	1.0	20	0.65	3.0	1.0	UPS5817E3CT-ND	.24	2.15	17.93	UPS5817E3TR-ND	3,000	149.38/M
		40	0.85	3.0	1.0	UPS5819E3CT-ND	.27	2.39	19.88	UPS5819E3TR-ND	3,000	165.63/M
						POWERMITE3						
2A	3.0	40	0.50	3.0	0.5	UPS340E3CT-ND	.69	6.25	52.05	UPS340E3TR-ND	5,000	390.38/M
	3.0	60	0.63	3.5	0.2	UPS360E3CT-ND	1.52	13.68	114.00	UPS360E3TR-ND	5,000	855.00/M
	3.0	100	0.76	3.0	0.2	UPS3100E3CT-ND	.78	6.98	58.20	UPS3100E3TR-ND	5,000	436.50/M
	5.0	40	0.54	5.0	0.5	UPS540E3CT-ND	1.76	15.84	132.00	UPS540E3TR-ND	5,000	990.00/M
	5.0	60	0.69	5.0	0.2	UPS560E3CT-ND	1.84	16.56	138.00	UPS560E3TR-ND	5,000	1035.00/M
	5.0	100	0.81	5.0	0.2	UPS5100E3CT-ND	.77	6.89	57.38	UPS5100E3TR-ND	5,000	430.32/M
	5.0	100	0.81	5.0	0.2	UPS5100HE3CT-ND	2.00	18.00	150.00	UPS5100HE3TR-ND	5,000	1125.00/M
	7.0	60	0.60	7.0	0.1	UPS760E3CT-ND	1.06	9.55	79.58	UPS760E3TR-ND	5,000	596.82/M
	8.0	35	0.51	8.0	1.4	UPS835LE3CT-ND	1.84	16.56	138.00	UPS835LE3TR-ND	5,000	1035.00/M
	8.0	40	0.37	3.0	5.0	UPS840E3CT-ND	4.46	40.14	334.50	UPS840E3TR-ND	5,000	2118.50/M
	10.0	40	0.51	10.0	0.3	UPS1040E3CT-ND	1.39	12.49	104.10	UPS1040E3TR-ND	5,000	780.75/M
2B	2 x 5.0	40	0.48	5.0	0.15	UPS1040CTE3CT-ND	1.39	12.49	104.10	UPS1040CTE3TR-ND	5,000	780.75/M
						POWERDI5						
3	3.0	200	0.78	3.0	0.01	UPDS3200E3CT-ND	3.00	27.00	225.00	UPDS3200E3TR-ND	5,000	1687.50/M
	5.0	100	0.71	5.0	0.01	UPDS5100HE3CT-ND	2.20	19.80	165.00	—	—	—

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Ultra Fast Rectifiers POWERMITE®

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Fig.	V_R (V)	I_F (A)	I_{FSM} (A)	P_d (W)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	600	2	20	2.5	UPR60E3CT-ND	2.08	18.72	156.00	—	—
2	50	2.5	25	—	UPR5E3CT-ND	1.32	11.88	99.00	UPR5E3TR-ND	825.00/M
	100	2.5	25	—	UPR10E3CT-ND	1.44	12.96	108.00	UPR10E3TR-ND	900.00/M
	150	2.5	25	—	UPR15E3CT-ND	1.56	14.04	117.00	—	—

Fig. 1

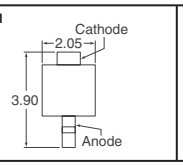
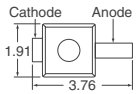


Fig. 2



Zener Diodes

Fig. 1 DO-35 500mW

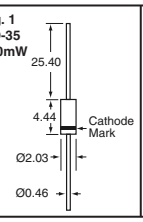


Fig. 2 DO-41 1W/2W

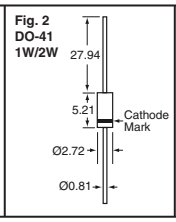
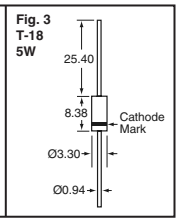


Fig. 3 T-18 5W



500mW Series, DO-35 Silicon Zener Diodes, 1N5221 — 1N5275

(Value)	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	(Value)	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	(Value)	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	(Value)	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	(Value)	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)
21	2.4	20	30	4.7	20	48	18	7.0	55	28	4.5	66	68	1.8
24	2.8	20	33	6.0	20	49	19	6.6	60	42	3.0	67	75	1.7
26	3.3	20	36	7.5	20	51	24	5.6	61	47	2.7	68	82	1.5
27	3.6	20	40	10	20	52	24	5.2	62	51	2.5	72	110	1.1
28	3.9	20	42	12	20	53	25	5.0	64	60	2.1	74	130	0.95
29	4.3	20	47	17	7.4	54	27	4.6	65	62	2.0	75	140	0.90

1W Series, DO-41 Glass Zener Diodes 1N4741A — 1N4763A

(Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)
41	11	23
43	13	19
56	47	5.5
63	91	2.8

2W Series, DO-41 Silicon Zener Diodes, 2EZ3.6D5 — 2EZ200D5

Nominal Zener Voltage (Value)	Vz (Volts)	Izt (mA)	Nominal Zener Voltage (Value)	Vz (Volts)	Izt (mA)	Nominal Zener Voltage (Value)	Vz (Volts)	Izt (mA)	Nominal Zener Voltage (Value)	Vz (Volts)	Izt (mA)
3.6	3.6	139	15	15	33.4	39	39	12.8	82	82	6.1
4.3	4.3	116	17	17	29.4	43	43	11.6	91	91	5.5
6.2	6.2	80.5	18	18	27.8	47	47	10.6	110	110	4.5
6.8	6.8	73.5	19	19	26.3	51	51	9.8	130	130	3.8
7.5	7.5	66.5	22	22	22.8	56	56	9.0	180	180	2.8
12	12	41.5	27	27	18.5	62	62	8.1	200	200	2.5
13	13	38.5	33	33	15.1	75	75	6.7			

5W Series, T-18 Silicon Zener Diodes 1N5376B

(Value)	Regulator Voltage Vz	Test Current Iz
76	87	15

Fig.	DC Power Dissipation	Voltage Range (Value) See Chart	Digi-Key Part No.*	Cut Tape Pricing 1	10	100	Digi-Key Part No.*	Tape and Reel Pricing 4,000	8,000	10,000	Microsemi Part No.*
1	500 mW	2.4V — 140V	1N52(Value)DO35MSCT-ND	1.20	8.40	60.00	1N52(Value)DO35MSTR-ND	—	—	963.00/M	1N52(Value)DO35
2	1 W	11V — 91V	1N47(Value)AD041MSCT-ND	.25	1.65	13.20	1N47(Value)AD041MSTR-ND	1153.94/M	—	—	1N47(Value)AD041
	2 W	3.6V — 200V	2EZ(Value)D5D041MSCT-ND	1.42	9.45	75.60	2EZ(Value)D5D041MSTR-ND	1153.94/M	—	—	2EZ(Value)D5D041
3	5 W	—	1N5376BMSCT-ND	1.20	8.00	64.00	—	—	—	—	1N5376B

* For complete part number, substitute corresponding value from chart for (Value).

POWERMITE® Pin Diodes

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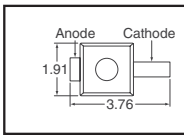
Maximum Reverse Voltage (V)	Average Power Dissipation (W)	Maximum Capacitance (pF)	Maximum Reverse Current (µA)	Maximum Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Microsemi Part No.
100	2.5	1.6	10	1.0	UPP1001E3CT-ND	2.80	2.52	2.10	—	—	UPP1001E3/TR7
50	2.5	1.0	—	1.0	UPP9401E3CT-ND	2.72	2.45	2.04	UPP9401E3TR-ND	1700.00/M	UPP9401E3/TR7