

DIODES High Speed Switching Diodes (Cont.)



Fig.	Peak Reverse Voltage VRWM (V)	Max. Rev. Current		Max. Forward Voltage@		Max. Rev. Recovery Time Trr (nS)	Power Dissipation Pd (mW)	Pinning			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
		IR (µA)	VR (V)	VF (V)	IF (mA)			1	2	3		1	10	100		Qty.	Pricing
SOD-123 — RoHS Compliant																	
6	100	1.0	75	0.855	10	4.0	400	—	—	—	1N4148W-FDICT-ND	.38	2.47	10.74	1N4148W-FDITR-ND	3,000	29.00/M
	100	1.0	75	1.25	150	4.0	400	—	—	—	1N4148W-13-FDICT-ND	.46	3.30	19.83	1N4148W-13-FDITR-ND	10,000	52.87/M
	75	2.5	75	0.855	10	4.0	400	—	—	—	1N4448W-FDICT-ND	.31	2.11	9.91	1N4448W-FDITR-ND	3,000	29.12/M
	100	1.0	75	1.0	50	4.0	400	—	—	—	BAV16W-FDICT-ND	.38	2.47	10.74	BAV16W-FDITR-ND	3,000	29.00/M
	100	0.1	100	1.0	100	50	250	—	—	—	BAV19W-FDICT-ND	.41	2.81	13.22	BAV19W-FDITR-ND	3,000	38.83/M
	150	0.1	150	1.0	100	50	250	—	—	—	BAV20W-FDICT-ND	.41	2.81	13.22	BAV20W-FDITR-ND	3,000	38.83/M
	200	0.1	200	1.0	100	50	250	—	—	—	BAV21W-FDICT-ND	.41	2.81	13.22	BAV21W-FDITR-ND	3,000	38.83/M
	130	0.005	75	1.0	10	3.0§	250	—	—	—	BAV116W-FDICT-ND	.41	2.81	13.22	BAV116W-FDITR-ND	3,000	38.83/M
	300	100	240	1.0	100	50	400	—	—	—	BAV3004W-FDICT-ND	.35	2.48	14.87	BAV3004W-FDITR-ND	3,000	49.57/M
	SOD-323 — RoHS Compliant																
6	80	0.1	80	0.855	10	4.0	200	—	—	—	1N4448HWS-FDICT-ND	.35	2.48	14.87	1N4448HWS-FDITR-ND	3,000	49.57/M
	75	1.0	75	0.855	10	4.0	200	—	—	—	1N4148WS-FDICT-ND	.40	2.66	11.57	1N4148WS-FDITR-ND	3,000	31.23/M
	75	2.5	75	1.0	100	4.0	200	—	—	—	1N4448WS-FDICT-ND	.33	2.25	10.57	1N4448WS-FDITR-ND	3,000	31.06/M
	75	1.0	75	1.0	50	4.0	200	—	—	—	BAV16WS-FDICT-ND	.40	2.66	11.57	BAV16WS-FDITR-ND	3,000	31.23/M
	100	0.1	100	1.0	100	50	200	—	—	—	BAV19WS-FDICT-ND	.41	2.81	13.22	BAV19WS-FDITR-ND	3,000	38.83/M
	150	0.1	150	1.0	100	50	200	—	—	—	BAV20WS-FDICT-ND	.41	2.81	13.22	BAV20WS-FDITR-ND	3,000	38.83/M
200	0.1	200	1.0	100	50	200	—	—	—	BAV21WS-FDICT-ND	.41	2.81	13.22	BAV21WS-FDITR-ND	3,000	38.83/M	
SOD-523 — RoHS Compliant																	
7	80	0.1	80	1.0	100	4.0	150	—	—	—	1N4448HWT-DICT-ND	.50	3.37	15.86	1N4448HWT-DITR-ND	3,000	46.60/M
	100	1.0	75	1.0	50	4.0	150	—	—	—	1N4148WTDICT-ND	.50	3.37	15.86	1N4148WTDITR-ND	3,000	46.60/M
DFN1006-2 — RoHS Compliant																	
8	80	100	80	1.0	100	4.0	250	—	—	—	1N4448HLPDICT-ND	.36	2.83	19.33	1N4448HLPDITR-ND	3,000	81.79/M
	75	1.0	75	1.0	50	4.0	250	—	—	—	BAS16LPDICT-ND	.36	2.83	19.33	BAS16LPDITR-ND	3,000	81.79/M

† Dual Isolated Single § Reverse Recovery Time @ µs ◆ RoHS Compliant



Ultra Fast Switching Rectifiers

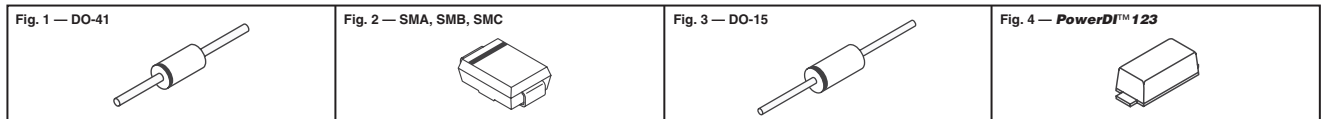


Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Reverse Current @ 25°C (µA)	Maximum Peak Forward Voltage (V)	Maximum Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		
								1	10	100		Qty.	Pricing	
DO-41														
1	1.0	50	30	5.0	1.0	50	UF1001DICT-ND	.47	3.39	20.32	UF1001DITR-ND	5,000	60.97/M	
	1.0	100	30	5.0	1.0	50	UF1002DICT-ND	.40	2.85	19.00	UF1002DITR-ND	5,000	64.61/M	
	1.0	200	30	5.0	1.0	50	UF1003DICT-ND	.45	3.16	21.07	UF1003DITR-ND	5,000	71.63/M	
	1.0	200	35	2.0	0.875	25	MUR120-TDICT-ND	.50	4.00	29.99	MUR120-TDITR-ND	5,000	132.18/M	
	1.0	400	30	5.0	1.3	50	UF1004DICT-ND	.52	3.66	24.37	UF1004DITR-ND	5,000	82.86/M	
	1.0	600	30	5.0	1.7	75	UF1005DICT-ND	.40	3.21	21.91	UF1005DITR-ND	5,000	87.07/M	
	1.0	600	35	5.0	1.25	75	MUR160-TDICT-ND	.55	4.36	32.71	MUR160-TDITR-ND	5,000	143.75/M	
	1.0	800	30	5.0	1.7	75	UF1006DICT-ND	.48	3.77	25.77	UF1006DITR-ND	5,000	102.44/M	
	1.0	1,000	30	5.0	1.7	75	UF1007DICT-ND	.43	3.45	25.90	UF1007DITR-ND	5,000	113.80/M	
	SMA													
2	1.0	50	30	5.0	0.9	25	ES1A-FDICT-ND	.48	3.41	22.72	ES1A-FDITR-ND	5,000	77.24/M	
	1.0	100	30	5.0	0.9	25	ES1B-FDICT-ND	.48	3.41	22.72	ES1B-FDITR-ND	5,000	77.24/M	
	1.0	150	30	5.0	0.92	20	ES1C-FDICT-ND	.66	5.27	39.53	ES1C-FDITR-ND	5,000	173.69/M	
	1.0	200	30	5.0	0.9	25	ES1D-FDICT-ND	.48	3.41	22.72	ES1D-FDITR-ND	5,000	77.24/M	
	1.0	400	30	5.0	1.25	35	ES1G-FDICT-ND	.45	3.54	24.16	ES1G-FDITR-ND	5,000	95.83/M	
	1.0	50	30	5.0	1.0	50	US1A-FDICT-ND	.44	3.10	20.65	US1A-FDITR-ND	5,000	70.22/M	
	1.0	100	30	5.0	1.0	50	US1B-FDICT-ND	.44	3.10	20.65	US1B-FDITR-ND	5,000	70.22/M	
	1.0	200	30	5.0	1.0	50	US1D-FDICT-ND	.59	4.73	35.44	US1D-FDITR-ND	5,000	155.72/M	
	1.0	400	30	5.0	1.3	50	US1G-FDICT-ND	.48	3.41	22.72	US1G-FDITR-ND	5,000	77.24/M	
	1.0	600	30	5.0	1.7	75	US1J-FDICT-ND	.48	3.41	22.72	US1J-FDITR-ND	5,000	77.24/M	
	1.0	800	30	5.0	1.7	75	US1K-FDICT-ND	.42	3.30	22.55	US1K-FDITR-ND	5,000	89.64/M	
	2.0	1,000	30	5.0	1.7	75	US1M-FDICT-ND	.42	3.30	22.55	US1M-FDITR-ND	5,000	89.64/M	
	2.0	50	50	5.0	0.92	25	ES2AA-FDICT-ND	.48	3.77	25.77	ES2AA-FDITR-ND	5,000	102.44/M	
	2.0	100	50	5.0	0.92	25	ES2BA-FDICT-ND	.48	3.77	25.77	ES2BA-FDITR-ND	5,000	102.44/M	
	2.0	150	50	5.0	0.92	25	ES2CA-FDICT-ND	.65	5.65	44.61	ES2CA-FDITR-ND	5,000	200.75/M	
	2.0	200	50	5.0	0.92	25	ES2DA-FDICT-ND	.48	3.77	25.77	ES2DA-FDITR-ND	5,000	102.44/M	
	SMB													
	2	1.0	200	40	2.0	0.875	25	MURS120-FDICT-ND	.48	3.41	22.72	MURS120-FDITR-ND	3,000	81.79/M
		1.0	400	35	5.0	1.25	50	MURS140-FDICT-ND	.53	3.72	24.78	MURS140-FDITR-ND	3,000	89.22/M
		1.0	600	35	5.0	1.25	50	MURS160-FDICT-ND	.39	3.06	20.94	MURS160-FDITR-ND	3,000	88.60/M
2.0		50	50	5.0	0.92	25	ES2A-FDICT-ND	.58	5.02	39.65	ES2A-FDITR-ND	3,000	191.66/M	
2.0		100	50	5.0	0.9	25	ES2B-FDICT-ND	.48	3.77	25.77	ES2B-FDITR-ND	3,000	109.05/M	
2.0		150	50	5.0	0.9	25	ES2C-FDICT-ND	.65	5.65	44.61	ES2C-FDITR-ND	3,000	215.62/M	
2.0		200	50	5.0	0.9	25	ES2D-FDICT-ND	.69	5.96	47.09	ES2D-FDITR-ND	3,000	227.59/M	
2.0		400	50	5.0	1.25	35	ES2G-FDICT-ND	.73	6.28	49.57	ES2G-FDITR-ND	3,000	239.57/M	
3.0		50	100	10	0.9	25	ES3AB-FDICT-ND	.64	5.09	38.17	ES3AB-FDITR-ND	3,000	179.27/M	
3.0		100	100	10	0.9	25	ES3BB-FDICT-ND	.64	5.09	38.17	ES3BB-FDITR-ND	3,000	179.27/M	
3.0		150	100	10	0.9	25	ES3CB-FDICT-ND	.64	5.09	38.17	ES3CB-FDITR-ND	3,000	179.27/M	
3.0		200	100	10	0.9	25	ES3DB-FDICT-ND	.64	5.09	38.17	ES3DB-FDITR-ND	3,000	179.27/M	
SMC														
2	3.0	50	100	10	0.9	25	ES3A-FDICT-ND	.64	5.09	38.17	ES3A-FDITR-ND	3,000	179.27/M	
	3.0	100	100	10	0.9	25	ES3B-FDICT-ND	.80	7.16	56.88	ES3B-FDITR-ND	3,000	294.92/M	
	3.0	150	100	10	0.9	25	ES3C-FDICT-ND	.85	7.58	60.22	ES3C-FDITR-ND	3,000	312.27/M	
	3.0	200	100	10	0.9	25	ES3D-FDICT-ND	.64	5.09	38.17	ES3D-FDITR-ND	3,000	179.27/M	
DO-15														
3	2.0	400	60	5.0	1.3	50	UF2004-TDICT-ND	.50	4.00	29.99	UF2004-TDITR-ND	4,000	141.27/M	
	2.0	1,000	60	5.0	1.7	75	UF2007-TDICT-ND	.55	4.36	32.71	UF2007-TDITR-ND	4,000	153.66/M	
PowerDI™123														
4	1.0	200	30	5.0	0.98	25	DFLU1200-TDICT-ND	.48	3.77	25.77	DFLU1200-TDITR-ND	3,000	109.05/M	

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