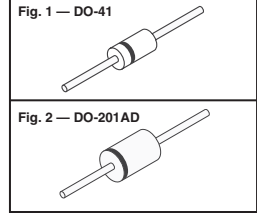


**DIODES** High-Efficiency Rectifiers

• Operating and Storage Temperature: -65°C - 175°C  
 • Reverse recovery test @ 1.0A, V<sub>R</sub> = 30V



Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Max. Reverse Recovery Time (ns)	Digi-Key Part No.	Cut Tape Pricing		
								1	10	100
1	1.0	50	50	5.0	1.0	50	HER101DICT-ND	.36	2.54	16.94
	1.0	200	50	5.0	1.0	50	HER103DICT-ND	.43	3.02	20.12
2	3.0	200	200	10.0	1.0	50	HER303DICT-ND	.55	4.36	32.73



**General Purpose and Schottky Diodes**  
**Silicon and Glass Passivated Rectifiers**



Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (VRRM)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel	
						1	10	100	1,000		Qty.	Pricing
<b>DO-41 — RoHS Compliant</b>												
1	1.0	50	30	1.0	1N4001DICT-ND	.26	1.75	7.60	24.70	1N4001DITR-ND	5,000	17.86/M
	1.0	100	30	1.0	1N4002DICT-ND	.26	1.75	7.60	24.70	1N4002DITR-ND	5,000	17.86/M
	1.0	200	30	1.0	1N4003DICT-ND	.26	1.75	7.60	24.70	1N4003DITR-ND	5,000	17.86/M
	1.0	400	30	1.0	1N4004DICT-ND	.25	1.62	7.02	22.83	1N4004DITR-ND	5,000	16.51/M
	1.0	600	30	1.0	1N4005DICT-ND	.26	1.75	7.60	24.70	1N4005DITR-ND	5,000	17.86/M
	1.0	800	30	1.0	1N4006DICT-ND	.26	1.75	7.60	24.70	1N4006DITR-ND	5,000	17.86/M
	1.0	1,000	30	1.0	1N4007DICT-ND	.25	1.62	7.02	22.83	1N4007DITR-ND	5,000	16.51/M
	1.0	50	30	1.0	1N4001GDICT-ND	.45	3.09	14.54	54.52	1N4001GDITR-ND	5,000	36.35/M
	1.0	100	30	1.0	1N4002GDICT-ND	.50	3.37	15.86	59.48	1N4002GDITR-ND	5,000	39.66/M
	1.0	200	30	1.0	1N4003GDICT-ND	.54	3.65	17.18	64.44	1N4003GDITR-ND	5,000	42.96/M
	1.0	400	30	1.0	1N4004GDICT-ND	.56	3.79	17.84	66.91	1N4004GDITR-ND	5,000	44.61/M
	1.0	600	30	1.0	1N4005GDICT-ND	.60	4.07	19.17	71.87	1N4005GDITR-ND	5,000	47.92/M
	1.0	800	30	1.0	1N4006GDICT-ND	.36	2.56	15.37	66.58	1N4006GDITR-ND	5,000	46.10/M
	1.0	1,000	30	1.0	1N4007GDICT-ND	.38	2.73	16.36	70.88	1N4007GDITR-ND	5,000	49.07/M
<b>SMA</b>												
2	1.0	50	30	1.1	S1A-FDICT-ND	.41	2.81	13.22	49.57	S1A-FDITR-ND	5,000	33.05/M
	1.0	100	30	1.1	S1B-FDICT-ND	.41	2.81	13.22	49.57	S1B-FDITR-ND	5,000	33.05/M
	1.0	200	30	1.1	S1D-FDICT-ND	.41	2.81	13.22	49.57	S1D-FDITR-ND	5,000	33.05/M
	1.0	400	30	1.1	S1G-FDICT-ND	.45	3.09	14.54	54.52	S1G-FDITR-ND	5,000	36.35/M
	1.0	600	30	1.1	S1J-FDICT-ND	.41	2.81	13.22	49.57	S1J-FDITR-ND	5,000	33.05/M
	1.0	800	30	1.1	S1K-FDICT-ND	.58	3.93	18.50	69.39	S1K-FDITR-ND	5,000	46.27/M
	1.0	1,000	30	1.1	S1M-FDICT-ND	.45	3.09	14.54	54.52	S1M-FDITR-ND	5,000	36.35/M
	1.5	50	50	1.15	S2AA-FDICT-ND	.46	3.30	19.83	85.91	S2AA-FDITR-ND	5,000	59.48/M
	1.5	100	50	1.15	S2BADICT-ND	.31	2.42	16.55	84.86	—	—	—
	1.5	100	50	1.15	S2BA-FDICT-ND	.44	3.10	20.65	92.94	S2BA-FDITR-ND	5,000	70.22/M
	1.5	200	50	1.15	S2DA-FDICT-ND	.44	3.10	20.65	92.94	S2DA-FDITR-ND	5,000	70.22/M
	1.5	400	50	1.15	S2GA-FDICT-ND	.44	3.10	20.65	92.94	S2GA-FDITR-ND	5,000	70.22/M
	1.5	600	50	1.15	S2JA-FDICT-ND	.46	3.30	19.83	85.91	S2JA-FDITR-ND	5,000	59.48/M
	1.5	800	50	1.15	S2KA-FDICT-ND	.46	3.30	19.83	85.91	S2KA-FDITR-ND	5,000	59.48/M
1.5	1,000	50	1.15	S2MA-FDICT-ND	.46	3.30	19.83	85.91	S2MA-FDITR-ND	5,000	59.48/M	
<b>SMB</b>												
2	1.0	50	30	1.1	S1AB-FDICT-ND	.35	2.48	14.87	64.44	S1AB-FDITR-ND	3,000	49.57/M
	1.0	100	30	1.1	S1BB-FDICT-ND	.35	2.48	14.87	64.44	S1BB-FDITR-ND	3,000	49.57/M
	1.0	200	30	1.1	S1DB-FDICT-ND	.35	2.48	14.87	64.44	S1DB-FDITR-ND	3,000	49.57/M
	1.0	400	30	1.1	S1GB-FDICT-ND	.44	3.10	20.65	92.94	S1GB-FDITR-ND	3,000	74.35/M
	1.0	600	30	1.1	S1JB-FDICT-ND	.35	2.48	14.87	64.44	S1JB-FDITR-ND	3,000	49.57/M
	1.0	800	30	1.1	S1KB-FDICT-ND	.46	3.30	19.83	85.91	S1KB-FDITR-ND	3,000	66.09/M
	1.0	1,000	30	1.1	S1MB-FDICT-ND	.46	3.30	19.83	85.91	S1MB-FDITR-ND	3,000	66.09/M
	1.5	50	30	1.15	S2A-FDICT-ND	.40	2.81	16.85	73.03	S2A-FDITR-ND	3,000	56.18/M
	1.5	100	30	1.15	S2B-FDICT-ND	.46	3.30	19.83	85.91	S2B-FDITR-ND	3,000	66.09/M
	1.5	200	30	1.15	S2D-FDICT-ND	.46	3.30	19.83	85.91	S2D-FDITR-ND	3,000	66.09/M
	1.5	400	30	1.15	S2GDICT-ND	.37	2.64	17.65	79.41	—	—	—
	1.5	400	30	1.15	S2G-FDICT-ND	.35	2.48	14.87	64.44	S2G-FDITR-ND	3,000	49.57/M
	1.5	600	30	1.15	S2J-FDICT-ND	.46	3.30	19.83	85.91	S2J-FDITR-ND	3,000	66.09/M
	1.5	800	50	1.15	S2KDICT-ND	.31	2.42	16.55	84.86	—	—	—
1.5	800	50	1.15	S2K-FDICT-ND	.35	2.48	14.87	64.44	S2K-FDITR-ND	3,000	49.57/M	
1.5	1,000	30	1.15	S2M-FDICT-ND	.35	2.48	14.87	64.44	S2M-FDITR-ND	3,000	49.57/M	
3.0	50	100	1.15	S3AB-FDICT-ND	.48	3.77	25.77	132.18	S3AB-FDITR-ND	3,000	109.05/M	
3.0	100	100	1.15	S3BB-FDICT-ND	.45	3.63	27.26	156.96	S3BB-FDITR-ND	3,000	128.05/M	
3.0	200	100	1.15	S3DB-FDICT-ND	.48	3.77	25.77	132.18	S3DB-FDITR-ND	3,000	109.05/M	
3.0	400	100	1.15	S3GB-FDICT-ND	.48	3.77	25.77	132.18	S3GB-FDITR-ND	3,000	109.05/M	
3.0	600	100	1.15	S3JB-FDICT-ND	.48	3.77	25.77	132.18	S3JB-FDITR-ND	3,000	109.05/M	
3.0	800	100	1.15	S3KB-FDICT-ND	.48	3.77	25.77	132.18	S3KB-FDITR-ND	3,000	109.05/M	
3.0	1,000	100	1.15	S3MB-FDICT-ND	.48	3.77	25.77	132.18	S3MB-FDITR-ND	3,000	109.05/M	
<b>SMC</b>												
2	3.0	50	100	1.15	S3A-FDICT-ND	.48	3.77	25.77	132.18	S3A-FDITR-ND	3,000	109.05/M
	3.0	100	100	1.15	S3B-FDICT-ND	.48	3.77	25.77	132.18	S3B-FDITR-ND	3,000	109.05/M
	3.0	200	100	1.15	S3D-FDICT-ND	.36	2.83	19.33	99.13	S3D-FDITR-ND	3,000	81.79/M
	3.0	400	100	1.15	S3G-FDICT-ND	.36	2.83	19.33	99.13	S3G-FDITR-ND	3,000	81.79/M
	3.0	600	100	1.15	S3J-FDICT-ND	.36	2.83	19.33	99.13	S3J-FDITR-ND	3,000	81.79/M
	3.0	800	100	1.15	S3K-FDICT-ND	.36	2.83	19.33	99.13	S3K-FDITR-ND	3,000	81.79/M
	3.0	1,000	100	1.15	S3M-FDICT-ND	.48	3.77	25.77	132.18	S3M-FDITR-ND	3,000	109.05/M
	5.0	50	100	1.15	S5AC-FDICT-ND	.48	3.77	25.77	132.18	S5AC-FDITR-ND	3,000	109.05/M
	5.0	100	100	1.15	S5BC-FDICT-ND	.48	3.77	25.77	132.18	S5BC-FDITR-ND	3,000	109.05/M
	5.0	200	100	1.15	S5DC-FDICT-ND	.45	3.63	27.26	156.96	S5DC-FDITR-ND	3,000	128.05/M
	5.0	400	100	1.15	S5GC-FDICT-ND	.48	3.77	25.77	132.18	S5GC-FDITR-ND	3,000	109.05/M
	5.0	600	100	1.15	S5JC-FDICT-ND	.55	4.36	32.71	188.35	S5JC-FDITR-ND	3,000	153.66/M
	5.0	800	100	1.15	S5KC-DICT-ND	.72	6.20	48.96	—	—	—	—

◆ RoHS Compliant

(Continued)

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