

SILICON RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to +175°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C T _A	Maximum Forward Voltage @ 25°C T _A	
	PRV	I _o @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	AAV	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

0.6 AMPERE/R-1 (CASE 2)

1A1	50	0.6	25	45	5.0	0.6	1.0
1A2	100	0.6	25	45	5.0	0.6	1.0
1A3	200	0.6	25	45	5.0	0.6	1.0
1A4	400	0.6	25	45	5.0	0.6	1.0
1A5	600	0.6	25	45	5.0	0.6	1.0
1A6	800	0.6	25	35	5.0	0.6	1.0
1A7	1000	0.6	25	35	5.0	0.6	1.0

1.0 AMPERE/A-405 (CASE 3)

RL101	50	1.0	55	50	5.0	1.0	1.1
RL102	100	1.0	55	50	5.0	1.0	1.1
RL103	200	1.0	55	50	5.0	1.0	1.1
RL104	400	1.0	55	50	5.0	1.0	1.1
RL105	600	1.0	55	50	5.0	1.0	1.1
RL106	800	1.0	55	50	5.0	1.0	1.1
RL107	1000	1.0	55	50	5.0	1.0	1.1

1.0 AMPERE/DO-41 (CASE 4)

1N4001	50	1.0	75	50	5.0	1.0	1.1
1N4002	100	1.0	75	50	5.0	1.0	1.1
1N4003	200	1.0	75	50	5.0	1.0	1.1
1N4004	400	1.0	75	50	5.0	1.0	1.1
1N4005	600	1.0	75	50	5.0	1.0	1.1
1N4006	800	1.0	75	50	5.0	1.0	1.1
1N4007	1000	1.0	75	50	5.0	1.0	1.1

1.5 AMPERES/DO-15 (CASE 5)

1N5391	50	1.5	*70	50	5.0	1.5	1.4
1N5392	100	1.5	*70	50	5.0	1.5	1.4
1N5393	200	1.5	*70	50	5.0	1.5	1.4
1N5394	300	1.5	*70	50	5.0	1.5	1.4
1N5395	400	1.5	*70	50	5.0	1.5	1.4
1N5396	500	1.5	*70	50	5.0	1.5	1.4
1N5397	600	1.5	*70	50	5.0	1.5	1.4
1N5398	800	1.5	*70	50	5.0	1.5	1.4
1N5399	1000	1.5	*70	50	5.0	1.5	1.4
J05	50	1.5	75	60	5.0	1.5	1.0
J1	100	1.5	75	60	5.0	1.5	1.0
J2	200	1.5	75	60	5.0	1.5	1.0
J4	400	1.5	75	60	5.0	1.5	1.0
J6	600	1.5	75	60	5.0	1.5	1.0
J8	800	1.5	75	60	5.0	1.5	1.0
J10	1000	1.5	75	60	5.0	1.5	1.0
RL151	50	1.5	75	60	5.0	1.5	1.0
RL152	100	1.5	75	60	5.0	1.5	1.0
RL153	200	1.5	75	60	5.0	1.5	1.0
RL154	400	1.5	75	60	5.0	1.5	1.0
RL155	600	1.5	75	60	5.0	1.5	1.0
RL156	800	1.5	75	60	5.0	1.5	1.0
RL157	1000	1.5	75	60	5.0	1.5	1.0

NOTE: "*" Lead Temp. @3/8" From Body

SILICON RECTIFIERSOPERATING AND STORAGE TEMPERATURE -65°C to $+175^{\circ}\text{C}$

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C T_A	Maximum Forward Voltage @ 25°C T_A	
	PRV	I_o @ T_A		I_{FM} (Surge)	I_R	I_{FM}	V_{FM}
	V _{PK}	A _{AV}	$^{\circ}\text{C}$	A _{PK}	μA_{dc}	A _{PK}	V _{PK}

2.0 AMPERES/DO-15 (CASE 5)

RL201	50	2.0	75	70	5.0	2.0	1.0
RL202	100	2.0	75	70	5.0	2.0	1.0
RL203	200	2.0	75	70	5.0	2.0	1.0
RL204	400	2.0	75	70	5.0	2.0	1.0
RL205	600	2.0	75	70	5.0	2.0	1.0
RL206	800	2.0	75	70	5.0	2.0	1.0
RL207	1000	2.0	75	70	5.0	2.0	1.0

2.5 AMPERES/R-3 (CASE 6)

RL251	50	2.5	75	150	5.0	2.5	1.0
RL252	100	2.5	75	150	5.0	2.5	1.0
RL253	200	2.5	75	150	5.0	2.5	1.0
RL254	400	2.5	75	150	5.0	2.5	1.0
RL255	600	2.5	75	150	5.0	2.5	1.0
RL256	800	2.5	75	150	5.0	2.5	1.0
RL257	1000	2.5	75	150	5.0	2.5	1.0

3.0 AMPERES/DO-201AD (CASE 7)

1N5400	50	3.0	*105	200	5.0	3.0	0.95
1N5401	100	3.0	*105	200	5.0	3.0	0.95
1N5402	200	3.0	*105	200	5.0	3.0	0.95
1N5404	400	3.0	*105	200	5.0	3.0	0.95
1N5406	600	3.0	*105	200	5.0	3.0	0.95
1N5407	800	3.0	*105	200	5.0	3.0	0.95
1N5408	1000	3.0	*105	200	5.0	3.0	0.95

NOTE: "*" Lead Temp. @3/8" From Body

3.0 AMPERES/DO-201AD (CASE 7)

RL500	50	3.0	95	100	5.0	9.4	1.1
RL501	100	3.0	95	100	5.0	9.4	1.1
RL502	200	3.0	95	100	5.0	9.4	1.1
RL504	400	3.0	95	100	5.0	9.4	1.1
RL506	600	3.0	95	100	5.0	9.4	1.1
RL508	800	3.0	95	100	5.0	9.4	1.1
RL510	1000	3.0	95	100	5.0	9.4	1.1

SILICON RECTIFIERSOPERATING AND STORAGE TEMPERATURE -65°C to $+175^{\circ}\text{C}$

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C T_A	Maximum Forward Voltage @ 25°C T_A	
	PRV	$I_o @ T_A$		I_{FM} (Surge)	I_R	I_{FM}	V_{FM}
	VPK	AAV	$^{\circ}\text{C}$	APK	μA_{dc}	APK	VPK

6.0 AMPERES/R-6 (CASE 8)

6A05	50	6.0	60	400	10	6.0	0.95
6A1	100	6.0	60	400	10	6.0	0.95
6A2	200	6.0	60	400	10	6.0	0.95
6A4	400	6.0	60	400	10	6.0	0.95
6A6	600	6.0	60	400	10	6.0	0.95
6A8	800	6.0	60	400	10	6.0	0.95
6A10	1000	6.0	60	400	10	6.0	0.95

6.0 AMPERES/RA-L (CASE 28)

RL750	50	6.0	60	400	25	6.0	0.90
RL751	100	6.0	60	400	25	6.0	0.90
RL752	200	6.0	60	400	25	6.0	0.90
RL754	400	6.0	60	400	25	6.0	0.90
RL756	600	6.0	60	400	25	6.0	0.90

8.0 AMPERES/TO-220A (CASE 9)

RL801	50	8.0	*100	200	10	8.0	1.1
RL802	100	8.0	*100	200	10	8.0	1.1
RL803	200	8.0	*100	200	10	8.0	1.1
RL804	400	8.0	*100	200	10	8.0	1.1
RL805	600	8.0	*100	200	10	8.0	1.1
RL806	800	8.0	*100	200	10	8.0	1.1

- NOTE: 1. Suffix "R" for Reverse Polarity.
 2. "*" Case Temperature Measured At Metal Tap.
 3. Operating and Storage Temperature: -65°C to $+150^{\circ}\text{C}$.

**16 AMPERES/TO-220 (CASE 10)**

RL1601	50	16	*100	200	10	8.0	1.1
RL1602	100	16	*100	200	10	8.0	1.1
RL1603	200	16	*100	200	10	8.0	1.1
RL1604	400	16	*100	200	10	8.0	1.1
RL1605	600	16	*100	200	10	8.0	1.1
RL1606	800	16	*100	200	10	8.0	1.1

- NOTE: 1. Suffix "C" = Common Cathode, "A" = Common Anode,
 2. "*" Case Temperature Measured At Metal Tap.
 3. Operating and Storage Temperature: -65°C to $+150^{\circ}\text{C}$.