



SENSITRON SEMICONDUCTOR

HIGH EFFICIENCY RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C TO +150°C

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

1.0 AMPERE-HIGH EFFICIENCY / R-1

1H1	50	1.0	25	25	5.0	1.0	1.0	50
1H2	100	1.0	25	25	5.0	1.0	1.0	50
1H3	200	1.0	25	25	5.0	1.0	1.0	50
1H4	300	1.0	25	25	5.0	1.0	1.3	50
1H5	400	1.0	25	25	5.0	1.0	1.3	50
1H6	600	1.0	25	25	5.0	1.0	1.7	75
1H7	800	1.0	25	25	5.0	1.0	1.7	75
1H8	1000	1.0	25	25	5.0	1.0	1.7	75

1.0 AMPERE-HIGH EFFICIENCY / DO-41

HER101	50	1.0	50	30	5.0	1.0	1.0	50
HER102	100	1.0	50	30	5.0	1.0	1.0	50
HER103	200	1.0	50	30	5.0	1.0	1.0	50
HER104	300	1.0	50	30	5.0	1.0	1.3	50
HER105	400	1.0	50	30	5.0	1.0	1.3	50
HER106	600	1.0	50	30	5.0	1.0	1.7	75
HER107	800	1.0	50	30	5.0	1.0	1.7	75
HER108	1000	1.0	50	30	5.0	1.0	1.7	75

1.0 AMPERE-HIGH EFFICIENCY / SMB/DO-214AA

UF1A	50	1.0	100	30	10	1.0	1.0	50
UF1B	100	1.0	100	30	10	1.0	1.0	50
UF1D	200	1.0	100	30	10	1.0	1.0	50
UF1G	400	1.0	100	30	10	1.0	1.4	50
UF1J	600	1.0	100	30	10	1.0	1.7	100
UF1K	800	1.0	100	30	10	1.0	1.7	100

1.0 AMPERE-HIGH EFFICIENCY / DO-41

UF4001	50	1.0	55	30	5.0	1.0	1.0	50
UF4002	100	1.0	55	30	5.0	1.0	1.0	50
UF4003	200	1.0	55	30	5.0	1.0	1.0	50
UF4004	400	1.0	55	30	5.0	1.0	1.3	50
UF4005	600	1.0	55	30	5.0	1.0	1.7	75
UF4006	800	1.0	55	30	5.0	1.0	1.7	75
UF4007	1000	1.0	55	30	5.0	1.0	1.7	75

1.0 AMPERE-HIGH EFFICIENCY / SMA/DO-214AC

US1A	50	1.0	100	30	10	1.0	1.0	50
US1B	100	1.0	100	30	10	1.0	1.0	50
US1D	200	1.0	100	30	10	1.0	1.0	50
US1G	400	1.0	100	30	10	1.0	1.4	50
US1J	600	1.0	100	30	10	1.0	1.7	100
US1K	800	1.0	100	30	10	1.0	1.7	100

NOTE: T_{rr} Conditions: I_F=0.5A, I_R=1.0A, Recovery to 0.25A.



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	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	V _{PK}	A _{AV}	°C	A _{PK}	μAdc	V _{PK}	V _{PK}	ns

1.5 AMPERE-HIGH EFFICIENCY / DO-15



HER151	50	1.5	50	50	5.0	1.5	1.0	50
HER152	100	1.5	50	50	5.0	1.5	1.0	50
HER153	200	1.5	50	50	5.0	1.5	1.0	50
HER154	300	1.5	50	50	5.0	1.5	1.3	50
HER155	400	1.5	50	50	5.0	1.5	1.3	50
HER156	600	1.5	50	50	5.0	1.5	1.7	75
HER157	800	1.5	50	50	5.0	1.5	1.7	75
HER158	1000	1.5	50	50	5.0	1.5	1.7	75

2.0 AMPERE-HIGH EFFICIENCY / DO-15



HER201	50	2.0	50	60	5.0	2.0	1.0	50
HER202	100	2.0	50	60	5.0	2.0	1.0	50
HER203	200	2.0	50	60	5.0	2.0	1.0	50
HER204	300	2.0	50	60	5.0	2.0	1.3	50
HER205	400	2.0	50	60	5.0	2.0	1.3	50
HER206	600	2.0	50	60	5.0	2.0	1.7	75
HER207	800	2.0	50	60	5.0	2.0	1.7	75
HER208	1000	2.0	50	60	5.0	2.0	1.7	75

2.0 AMPERE-HIGH EFFICIENCY / SMB/DO-214AA



UF2A	50	2.0	100	50	10	2.0	1.0	50
UF2B	100	2.0	100	50	10	2.0	1.0	50
UF2D	200	2.0	100	50	10	2.0	1.0	50
UF2G	400	2.0	100	50	10	2.0	1.4	50
UF2J	600	2.0	100	50	10	2.0	1.7	100
UF2K	800	2.0	100	50	10	2.0	1.7	100

3.0 AMPERE-HIGH EFFICIENCY / DO-27



HER301	50	3.0	50	150	5.0	3.0	1.0	50
HER302	100	3.0	50	150	5.0	3.0	1.0	50
HER303	200	3.0	50	150	5.0	3.0	1.0	50
HER304	300	3.0	50	150	5.0	3.0	1.3	50
HER305	400	3.0	50	150	5.0	3.0	1.3	50
HER306	600	3.0	50	150	5.0	3.0	1.7	75
HER307	800	3.0	50	150	5.0	3.0	1.7	75
HER308	1000	3.0	50	150	5.0	3.0	1.7	75

3.0 AMPERE-HIGH EFFICIENCY / SMC/DO-214AB



UF3A	50	3.0	75	100	10	3.0	1.0	50
UF3B	100	3.0	75	100	10	3.0	1.0	50
UF3D	200	3.0	75	100	10	3.0	1.0	50
UF3G	400	3.0	75	100	10	3.0	1.4	50
UF3J	600	3.0	75	100	10	3.0	1.7	100
UF3K	800	3.0	75	100	10	3.0	1.7	100



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	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	V _{PK}	A _{AV}	°C	A _{PK}	? Adc	V _{PK}	V _{PK}	ns

6.0 AMPERE-HIGH EFFICIENCY / R-6



HER601	50	6.0	50	250	10	6.0	1.0	50
HER602	100	6.0	50	250	10	6.0	1.0	50
HER603	200	6.0	50	250	10	6.0	1.0	50
HER604	300	6.0	50	250	10	6.0	1.3	50
HER605	400	6.0	50	250	10	6.0	1.3	50
HER606	600	6.0	50	250	10	6.0	1.7	75
HER607	800	6.0	50	250	10	6.0	1.7	75
HER608	1000	6.0	50	250	10	6.0	1.7	75

8.0 AMPERE-HIGH EFFICIENCY / TO-220A



HER801	50	8.0	100	150	10	8.0	1.0	50
HER802	100	8.0	100	150	10	8.0	1.0	50
HER803	200	8.0	100	150	10	8.0	1.0	50
HER804	300	8.0	100	150	10	8.0	1.0	50
HER805	400	8.0	100	150	10	8.0	1.3	50
HER806	600	8.0	100	150	10	8.0	1.7	80
HER807	800	8.0	100	150	10	8.0	1.7	80
HER808	1000	8.0	100	150	10	8.0	1.7	80
UF800	50	8.0	100	125	10	8.0	1.0	50
UF801	100	8.0	100	125	10	8.0	1.0	50
UF802	200	8.0	100	125	10	8.0	1.0	50
UF803	300	8.0	100	125	10	8.0	1.3	50
UF804	400	8.0	100	125	10	8.0	1.3	50
UF806	600	8.0	100	125	10	8.0	1.7	100
UF808	800	8.0	100	125	10	8.0	1.7	100

8.0 AMPERE-HIGH EFFICIENCY / ITO-220A



UF800F	50	8.0	100	125	10	8.0	1.0	50
UF801F	100	8.0	100	125	10	8.0	1.0	50
UF802F	200	8.0	100	125	10	8.0	1.0	50
UF803F	300	8.0	100	125	10	8.0	1.3	50
UF804F	400	8.0	100	125	10	8.0	1.3	50
UF806F	600	8.0	100	125	10	8.0	1.7	100
UF808F	800	8.0	100	125	10	8.0	1.7	100

10.0 AMPERE-HIGH EFFICIENCY / TO-220



HER1001G	50	10.0	100	125	10	10.0	1.0	50
HER1002G	100	10.0	100	125	10	10.0	1.0	50
HER1003G	200	10.0	100	125	10	10.0	1.0	50
HER1004G	300	10.0	100	125	10	10.0	1.0	50
HER1005G	400	10.0	100	125	10	10.0	1.3	50
HER1006G	600	10.0	100	125	10	10.0	1.7	80
HER1007G	800	10.0	100	125	10	10.0	1.7	80
HER1008G	1000	10.0	100	125	10	10.0	1.7	80



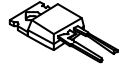
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	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	V _{PK}	V _{PK}	ns

10.0 AMPERE-HIGH EFFICIENCY / TO-220A



UF1000	50	10.0	100	150	10	10.0	1.0	50
UF1001	100	10.0	100	150	10	10.0	1.0	50
UF1002	200	10.0	100	150	10	10.0	1.0	50
UF1003	300	10.0	100	150	10	10.0	1.3	50
UF1004	400	10.0	100	150	10	10.0	1.3	50
UF1006	600	10.0	100	150	10	10.0	1.7	100
UF1008	800	10.0	100	150	10	10.0	1.7	100

10.0 AMPERE-HIGH EFFICIENCY / ITO-220A



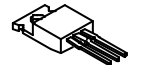
UF1000F	50	10.0	100	150	10	10.0	1.0	50
UF1001F	100	10.0	100	150	10	10.0	1.0	50
UF1002F	200	10.0	100	150	10	10.0	1.0	50
UF1003F	300	10.0	100	150	10	10.0	1.3	50
UF1004F	400	10.0	100	150	10	10.0	1.3	50
UF1006F	600	10.0	100	150	10	10.0	1.7	100
UF1008F	800	10.0	100	150	10	10.0	1.7	100

16.0 AMPERE-HIGH EFFICIENCY / TO-220A



HER1601G	50	16.0	105	250	10	16.0	1.0	50
HER1602G	100	16.0	105	250	10	16.0	1.0	50
HER1603G	200	16.0	105	250	10	16.0	1.0	50
HER1604G	300	16.0	105	250	10	16.0	1.0	50
HER1605G	400	16.0	105	250	10	16.0	1.3	50
HER1606G	600	16.0	105	250	10	16.0	1.7	80
HER1607G	800	16.0	105	250	10	16.0	1.7	80
HER1608G	1000	16.0	105	250	10	16.0	1.7	80

16.0 AMPERE-HIGH EFFICIENCY / TO-220



HER1601G	50	16.0	105	125	10	8.0	1.0	50
HER1602G	100	16.0	105	125	10	8.0	1.0	50
HER1603G	200	16.0	105	125	10	8.0	1.0	50
HER1604G	300	16.0	105	125	10	8.0	1.0	50
HER1605G	400	16.0	105	125	10	8.0	1.3	50
HER1606G	600	16.0	105	125	10	8.0	1.7	80
HER1607G	800	16.0	105	125	10	8.0	1.7	80
HER1608G	1000	16.0	105	125	10	8.0	1.7	80
UF1600	50	16.0	105	125	10	8.0	1.0	50
UF1601	100	16.0	105	125	10	8.0	1.0	50
UF1602	200	16.0	105	125	10	8.0	1.0	50
UF1603	300	16.0	105	125	10	8.0	1.3	50
UF1604	400	16.0	105	125	10	8.0	1.3	50
UF1606	600	16.0	105	125	10	8.0	1.7	100
UF1608	800	16.0	105	125	10	8.0	1.7	100



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	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	V _{PK}	V _{PK}	ns

16.0 AMPERE-HIGH EFFICIENCY / TO-3P



HER1601PT	50	16.0	100	200	10	8.0	1.0	50
HER1602PT	100	16.0	100	200	10	8.0	1.0	50
HER1603PT	200	16.0	100	200	10	8.0	1.0	50
HER1604PT	300	16.0	100	200	10	8.0	1.0	50
HER1605PT	400	16.0	100	200	10	8.0	1.3	50
HER1606PT	600	16.0	100	200	10	8.0	1.7	80
HER1607PT	800	16.0	100	200	10	8.0	1.7	80
HER1608PT	1000	16.0	100	200	10	8.0	1.7	80

16.0 AMPERE-HIGH EFFICIENCY / ITO-220



UF1600F	50	16.0	105	125	10	8.0	1.0	50
UF1601F	100	16.0	105	125	10	8.0	1.0	50
UF1602F	200	16.0	105	125	10	8.0	1.0	50
UF1603F	300	16.0	105	125	10	8.0	1.3	50
UF1604F	400	16.0	105	125	10	8.0	1.3	50
UF1606F	600	16.0	105	125	10	8.0	1.7	100
UF1608F	800	16.0	105	125	10	8.0	1.7	100

30.0 AMPERE-HIGH EFFICIENCY / TO-3P



HER3001PT	50	30.0	100	300	10	15.0	1.0	50
HER3002PT	100	30.0	100	300	10	15.0	1.0	50
HER3003PT	200	30.0	100	300	10	15.0	1.0	50
HER3004PT	300	30.0	100	300	10	15.0	1.0	50
HER3005PT	400	30.0	100	300	10	15.0	1.3	50
HER3006PT	600	30.0	100	300	10	15.0	1.7	80
HER3007PT	800	30.0	100	300	10	15.0	1.7	80
HER3008PT	1000	30.0	100	300	10	15.0	1.7	80

NOTE: “*” = Glass Passivated Die Construction.