

# High Voltage Rectifiers

**Microsemi**  
POWER ELECTRONICS

Part Number	Microsemi Division	Package Outline	Type	Mil Spec	Data Sheet ID	VR (Volts)	IO (Amps)	IFSM (Amps)	VF @ IO (Volts)	IR (uA)	trr (nsec)
1N6786	Santa Ana	A SQ. MELF	SM		24162	1100	1.5	20	3	1	60
R1200	Chatsworth	DO-41	STD		14047	1200	0.5	30	1.6	5	2000
R1200-F	Chatsworth	DO-41	STD		14048	1200	0.5	30	1.6	5	500
1N6787	Santa Ana	A SQ. MELF	SM		24163	1200	0.75	20	3	1	80
USR12	Watertown	SA	STD		17156	1200	0.75	20	3.3	5	500
US12	Watertown	SA	STD		17078	1200	1	20	2	2	
1N3644	Santa Ana	S	STD		2164	1500	0.25	14	5	5	
JAN1N3644	Santa Ana	S	STD	279	7099	1500	0.25	14	5	5	
JANTX1N3644	Santa Ana	S	STD	279	8849	1500	0.25	14	5	5	
R1500	Chatsworth	DO-41	STD		14049	1500	0.5	30	1.6	5	2000
R1500-F	Chatsworth	DO-41	STD		14050	1500	0.5	30	1.6	5	500
USR15	Watertown	SA	STD		17158	1500	0.6	20	4	5	500
1N6788	Santa Ana	A SQ. MELF	SM		24164	1500	0.75	20	3	1	80
US15	Watertown	SA	STD		17080	1500	0.8	20	3	2	
USR18	Watertown	SA	STD		17160	1800					
R1800	Chatsworth	DO-41	STD		14051	1800	0.5	30	1.6	5	2000
R1800-F	Chatsworth	DO-41	STD		14052	1800	0.5	30	1.6	5	500
US18	Watertown	SA	STD		17082	1800	0.7	20	3	2	
1N6789	Santa Ana	A SQ. MELF	SM		24165	1900	0.75	20	3	1	80
1N3645	Santa Ana	S	STD		2165	2000	0.25	14	5	5	
JAN1N3645	Santa Ana	S	STD	279	7100	2000	0.25	14	5	5	
JANTX1N3645	Santa Ana	S	STD	279	8850	2000	0.25	14	5	5	
R2000	Chatsworth	DO-41	STD		14053	2000	0.5	30	2.6	5	2000
R2000-F	Chatsworth	DO-41	STD		14054	2000	0.5	30	2.6	5	500
USR20	Watertown	SB	STD		17162	2000	0.5	20	5.5	5	500
US20	Watertown	SA	STD		17084	2000	0.6	20	4	2	
R2500	Chatsworth	DO-41	STD		14055	2500	0.2	30	2.6	5	2000
R2500-F	Chatsworth	DO-41	STD		14056	2500	0.2	30	2.6	5	500
1N3646	Santa Ana	S	STD		2166	2500	0.25	14	5	5	
JAN1N3646	Santa Ana	S	STD	279	7101	2500	0.25	14	5	5	
JANTX1N3646	Santa Ana	S	STD	279	8851	2500	0.25	14	5	5	
USR25	Watertown	SB	STD		17163	2500	0.4	20	6.6	5	500
US25	Watertown	SB	STD		17086	2500	0.6	20	4	2	
UFB2.5	Watertown	DH	STD		16775	2500	0.9	70	6	10	350
USB2.5	Watertown	DH	STD		17096	2500	1.1	80	5	10	
UDD2.5	Watertown	DD	STD		16623	2500	2.25	80	6	5	350
UDB2.5	Watertown	DD	STD		16616	2500	3	100	4	5	
UDF2.5	Watertown	DD	STD		16628	2500	4.5	150	6	10	350
UGF2.5	Watertown	DG	STD		16972	2500	5	150	6	10	350
UDE2.5	Watertown	DD	STD		16626	2500	6	200	5	10	
UGE2.5	Watertown	DG	STD		16969	2500	6.6	200	5	10	
R3000	Chatsworth	DO-41	STD		14057	3000	0.2	30	2.6	5	2000
R3000-F	Chatsworth	DO-41	STD		14058	3000	0.2	30	2.6	5	500
1N3647	Santa Ana	S	STD		2167	3000	0.25	14	5	5	
JAN1N3647	Santa Ana	S	STD	279	7102	3000	0.25	14	5	5	

Section Organization: High Voltage Rectifier Parametric Section is organized by ascending VR (volts), followed by ascending IO (volts)

**General Notes:**

1. Information on contacting Microsemi Divisions can be obtained on the back cover of this catalog
2. Forward Voltage (VF) when specified is at the rated IO. For VF@IF refer to the product datasheets.
3. For detailed VF data refer to the product datasheets by using the fax on demand system or contacting the Microsemi manufacturing division
4. Datasheets can be obtained from Microsemi's Website or Fax on Demand System by specifying the Data Sheet ID