



# HIGH VOLTAGE RECTIFIERS

OPERATING/STORAGE TEMPERATURE RANGE -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 <sub>A</sub>	Maximum Forward Voltage @ 25°C T <sub>A</sub>		Maximum Reverse Recovery Time
	PRV	I <sub>o</sub> @ T <sub>A</sub>		I <sub>FM</sub> (Surge)	I <sub>R</sub>	I <sub>FM</sub>	V <sub>FM</sub>	T <sub>rr</sub>
	V <sub>PK</sub>	mA	°C	A <sub>PK</sub>	µAdc	A <sub>PK</sub>	V <sub>PK</sub>	nS

## STANDARD AND FAST RECOVERY/DO-41

R1200	1200	500	50	30	5.0	0.5	1.6	—
R1500	1500	500	50	30	5.0	0.5	1.6	—
R1800	1800	500	50	30	5.0	0.5	1.6	—
R2000	2000	500	50	30	5.0	0.5	2.6	—
R1200F	1200	500	50	30	5.0	0.5	2.0	500
R1500F	1500	500	50	30	5.0	0.5	2.0	500
R1800F	1800	500	50	30	5.0	0.5	2.0	500
R2000F	2000	500	50	30	5.0	0.5	3.0	500

NOTE: PRV>2000V is Available on Special Order.

# GENERAL PURPOSE DIODES

## 300/400mW — DO-35/DO-34 OUTLINES

OPERATING/STORAGE TEMPERATURE RANGE -65°C to +175°C

Device Type	Package Outline	Peak Reverse Voltage V <sub>RM</sub> (Volts)	Max. Avg. Output Current I <sub>AVG</sub> (mA)	Max. Power Dissipation @ 25°C (mW)	Max. Forward Voltage Drop V <sub>F</sub> @ I <sub>F</sub> (Volts)   (mA)		Max. Reverse Current @ 25°C I <sub>R</sub> @ V <sub>R</sub> (nA)   (Volts)		Max. Reverse Recovery Time T <sub>rr</sub> (n sec.)
					V <sub>F</sub>	I <sub>F</sub>	I <sub>R</sub>	V <sub>R</sub>	
BAV18	DO-35	60	200	400	1.0	100	100	50	50 APPLIES TO ALL TYPES TEST CONDXS: I <sub>F</sub> =I <sub>R</sub> =30mA RL=100 I <sub>rr</sub> =1.0mA
BAV19	DO-35	120	200	400	1.0	100	100	100	
BAV20	DO-35	200	200	400	1.0	100	100	150	
BAV21	DO-35	250	200	400	1.0	100	100	200	
BAV18S	DO-34	60	200	300	1.0	100	100	50	
BAV19S	DO-34	120	200	300	1.0	100	100	100	
BAV20S	DO-34	200	200	300	1.0	100	100	50	
BAV21S	DO-34	250	200	300	1.0	100	100	200	

# HIGH SPEED SWITCHING DIODES

## 250mW/500mW — DO-35/DO-34 OUTLINES

OPERATING/STORAGE TEMPERATURE RANGE -65°C to +200°C

Device Type	Peak Reverse voltage VRM (V)	Reverse Current max I <sub>R</sub> @ V <sub>R</sub> (nA)   (V)		Forward Voltage max V <sub>F</sub> @ I <sub>F</sub> (V)   (mA)		Capacitance C max (pF)	Reverse Recovery Time T <sub>rr</sub> max (nS)	Power Dissipation Pd (mW)
		I <sub>R</sub>	V <sub>R</sub>	V <sub>F</sub>	I <sub>F</sub>			
1N914	100	5000	75	1.0	10	4.0	4.0	250
1N914A	100	5000	75	1.0	20	4.0	4.0	250
1N914B	100	5000	75	1.0	100	4.0	4.0	250
1N4148	100	5000	75	1.0	10	4.0	4.0	500
1N4150	50	100	50	1.0	200	2.0	4.0	500
1N4151	75	50	50	1.0	50	2.0	2.0	500
1N4154	35	100	25	1.0	30	4.0	2.0	500
1N4448	100	5000	75	1.0	100	4.0	4.0	500
1N4454	75	100	50	1.0	10	2.0	4.0	500

NOTE: To specify DO-34 Outline, Add Suffix "S" to Part Number.