

SECTION 1

HIGH-SPEED, SWITCHING, AND GENERAL-PURPOSE DIODES

type number	selection guide page	data sheet page
1N914; 1N916	1 - 4	1 -
1N4148; 1N4446; 1N4448	1 - 4	1 -
1N4150; 1N4151; 1N4153	1 - 4	1 -
1N4531; 1N4532	1 - 4	1 -
1PS181	1 - 5	1 -
1PS184	1 - 5	1 -
1PS193	1 - 5	1 -
1PS226	1 - 5	1 -
1PS300	1 - 5	1 -
1PS301	1 - 5	1 -
1PS302	1 - 5	1 -
BA220	1 - 4	1 -
BA221	1 - 4	1 -
BA316; BA317; BA318	1 - 4	1 -
BAL74	1 - 6	1 -
BAL74W	1 - 7	1 -

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type number	selection guide page	data sheet page
BAL99	1 - 6	1 -
BAL99W	1 - 7	1 -
BAS15	1 - 4	1 -
BAS16	1 - 6	1 -
BAS16W	1 - 7	1 -
BAS19; BAS20; BAS21	1 - 6	1 -
BAS28	1 - 6	1 -
BAS29; BAS31; BAS35	1 - 6	1 -
BAS32L	1 - 5	1 -
BAS55	1 - 6	1 -
BAS56	1 - 6	1 -
BAS216	1 - 5	1 -
BAS678	1 - 6	1 -
BAV10	1 - 4	1 -
BAV18 to BAV21	1 - 4	1 -
BAV23	1 - 6	1 -
BAV23S	1 - 6	1 -
BAV70	1 - 6	1 -
BAV70W	1 - 7	1 -
BAV74	1 - 6	1 -
BAV99	1 - 6	1 -
BAV99W	1 - 7	1 -
BAV100 to BAV103	1 - 5	1 -
BAV105	1 - 5	1 -


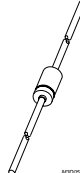
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type number	selection guide page	data sheet page
BAW56	1 - 6	1 -
BAW56W	1 - 7	1 -
BAW62	1 - 4	1 -
BAX12	1 - 4	1 -
BAX14	1 - 4	1 -
BAX18	1 - 4	1 -
BAY80	1 - 4	1 -
PMBD914	1 - 6	1 -
PMBD2835; PMBD2836	1 - 6	1 -
PMBD2837; PMBD2838	1 - 6	1 -
PMBD6050	1 - 6	1 -
PMBD6100	1 - 6	1 -
PMBD7000	1 - 6	1 -
PMLL4148; PMLL4446; PMLL4448	1 - 5	1 -
PMLL4150; PMLL4151; PMLL4153	1 - 5	1 -

High-speed, switching, and general-purpose diodes

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TYPE NUMBER	RATINGS				CHARACTERISTICS				DOUBLE DIODE	PACKAGE (not to scale)
	V _R max.	I _F max.	I _{FRM} max.	I _{FSM} max.	V _F @ I _F max.		C _d max.	t _{rr} max.		
	(V)	(mA)	(mA)	(A)	(V)	(mA)	(pF)	(ns)		
LEADED TYPES										
1N914	75	75	225	4	1.0	10	4	4	no	 <p>SOD27 (DO35)</p>
1N916	75	75	225	4	1.0	10	2	4	no	
1N4148	75	200	450	4	1.0	10	4	4	no	
1N4150	50	300	600	4	1.0	200	2.5	6	no	
1N4151	50	200	450	4	1.0	50	2	4	no	
1N4153	50	200	450	4	0.88	50	2	4	no	
1N4446	75	200	450	4	1.0	20	4	4	no	
1N4448	75	200	450	4	1.0	100	4	4	no	
BA220	10	200	400	9	0.95	100	2.5	4	no	
BA221	30	200	400	9	0.95	100	2.5	4	no	
BA316	10	100	225	4	1.1	100	2	4	no	
BA317	30	100	225	4	1.1	100	2	4	no	
BA318	50	100	225	4	1.1	100	2	4	no	
BAV10	60	300	600	9	1.0	200	2.5	6	no	
BAV18	50	250	625	9	1.0	100	5	50	no	
BAV19	100	250	625	9	1.0	100	5	50	no	
BAV20	150	250	625	9	1.0	100	5	50	no	
BAV21	200	250	625	9	1.0	100	5	50	no	
BAW62	75	200	450	4	1.0	100	2	4	no	
BAX12 ⁽¹⁾	90	400	800	55	1.0	200	35	50	no	
BAX14	20	500	2000	55	1.0	300	35	50	no	
BAX18	75	500	2000	55	1.0	300	35	50	no	
BAY80	120	250	625	9	1.0	100	6	50	no	
1N4531	75	200	450	4	1.0	10	4	4	no	 <p>SOD68 (DO34)</p>
1N4532	75	200	450	4	1.0	10	2	2	no	
BAS15	50	100	225	4	1.1	100	2	4	no	

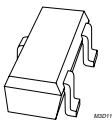
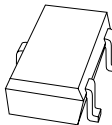

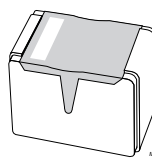
Note

1. Controlled avalanche diode; I_{RRM} = 600 mA.

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HIGH-SPEED, SWITCHING AND GENERAL-PURPOSE DIODES (continued)

TYPE NUMBER	RATINGS				CHARACTERISTICS				DOUBLE DIODE	PACKAGE (not to scale)
	V _R max.	I _F max.	I _{FRM} max.	I _{FSM} max.	V _F @ I _F		C _d max.	t _{rr} max.		
	(V)	(mA)	(mA)	(A)	(V)	(mA)	(pF)	(ns)		
SURFACE-MOUNT TYPES										
1PS181 1PS184 1PS193 1PS226	80 80 80 80	215 215 215 215	500 500 500 500	4 4 4 4	1.0 1.0 1.0 1.0	50 50 50 50	2.0 1.5 1.5 1.5	4 4 4 4	yes ⁽¹⁾ yes ⁽²⁾ no yes ⁽³⁾	 SC59
1PS300 1PS301 1PS302	80 80 80	200 250 200	500 500 500	4 4 4	1.0 1.0 1.0	50 50 50	2.0 1.5 1.5	4 4 4	yes ⁽¹⁾ yes ⁽²⁾ yes ⁽³⁾	 SC70
BAS32L BAV100 BAV101 BAV102 BAV103 BAV105 PMLL4148 PMLL4150 PMLL4151 PMLL4153 PMLL4446 PMLL4448	75 50 100 150 200 60 75 50 50 50 75 75	200 250 250 250 250 300 200 300 200 200 200 200	450 625 625 625 625 600 450 450 450 450 450 450	4 9 9 9 9 9 4 4 4 4 4 4	0.93 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.88 1.0 1.0	100 100 100 100 100 200 10 200 50 50 20 100	2 5 5 5 5 2.5 4 2.5 2 2 4 4	4 50 50 50 50 6 4 6 4 4 4 4 4	no no no no no no no no no no no no	 SOD80C
BAS216	75	250	500	4	1.0	50	1.5	4	no	 SOD110

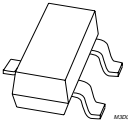
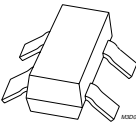
Notes

1. Common anode.
2. Common cathode.
3. Series connected.

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TYPE NUMBER	RATINGS				CHARACTERISTICS				DOUBLE DIODE	PACKAGE (not to scale)	
	V _R max.	I _F max.	I _{FRM} max.	I _{FSM} max.	V _F @ I _F		C _d max.	t _{rr} max.			
	(V)	(mA)	(mA)	(A)	(V)	(mA)	(pF)	(ns)			
SURFACE-MOUNT TYPES (continued)											
BAL74	50	215	500	4	1.0	50	2	4	no	 <p>SOT23</p>	
BAL99	70	215	500	4	1.0	50	1.5	4	no		
BAS16	75	215	500	4	1.0	50	1.5	4	no		
BAS19	100	200	625	9	1.0	100	5	50	no		
BAS20	150	200	625	9	1.0	100	5	50	no		
BAS21	200	200	625	9	1.0	100	5	50	no		
BAS29 ⁽⁴⁾	90	250	500	10	1.0	200	35	50	no		
BAS31 ⁽⁴⁾	90	250	500	10	1.0	200	35	50	yes ⁽³⁾		
BAS35 ⁽⁴⁾	90	250	500	10	1.0	200	35	50	yes ⁽¹⁾		
BAS55	60	250	600	9	1.0	200	2.5	6	no		
BAS678	80	250	600	9	1.0	200	2	6	no		
BAV23S	200	225	625	9	1.0	100	5	50	yes ⁽³⁾		
BAV70	70	215	450	4	1.0	50	1.5	4	yes ⁽²⁾		
BAV74	50	215	450	4	1.0	100	1.5	4	yes ⁽²⁾		
BAV99	75	215	450	4	1.0	50	1.5	4	yes ⁽³⁾		
BAW56	75	215	450	4	1.0	50	2	4	yes ⁽¹⁾		
PMBD914	70	215	500	4	1.0	50	1.5	4	no		
PMBD2835	35	215	450	4	1.0	50	2.5	4	yes ⁽¹⁾		
PMBD2836	75	215	450	4	1.0	50	2.5	4	yes ⁽¹⁾		
PMBD2837	30	215	450	4	1.0	50	2.5	4	yes ⁽²⁾		
PMBD2838	50	215	450	4	1.0	50	2.5	4	yes ⁽²⁾		
PMBD6050	70	215	500	4	1.0	50	1.5	4	no		
PMBD6100	70	215	450	4	1.0	50	1.5	4	yes ⁽²⁾		
PMBD7000	100	215	450	4	1.0	50	1.5	4	yes ⁽³⁾		
BAS28	75	215	500	4	1.0	50	1.5	4	yes		 <p>SOT143</p>
BAS56	60	200	600	9	1.0	200	2.5	6	yes		
BAV23	200	225	625	9	1.0	100	5	50	yes		

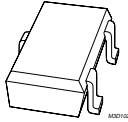
Notes

1. Common anode.
2. Common cathode.
3. Series connected.
4. Controlled avalanche diode; I_{RRM} = 600 mA.

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	V_R max.	I_F max.	I_{FRM} max.	I_{FSM} max.	V_F @ I_F max.		C_d max.	t_{rr} max.		
	(V)	(mA)	(mA)	(A)	(V)	(mA)	(pF)	(ns)		
SURFACE-MOUNT TYPES (continued)										
BAL74W	75	175	500	4	1.0	50	1.5	4	no	 SOT323
BAL99W	75	150	500	4	1.0	50	1.5	4	no	
BAS16W	75	175	500	4	1.0	50	1.5	4	no	
BAV70W	70	175	500	4	1.0	50	1.5	4	yes ⁽²⁾	
BAV99W	75	150	500	4	1.0	50	1.5	4	yes ⁽³⁾	
BAW56W	75	150	500	4	1.0	50	2.0	4	yes ⁽¹⁾	

Notes

1. Common anode.
2. Common cathode.
3. Series connected.