

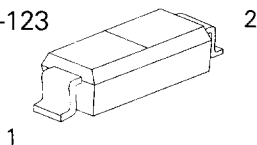
# Diodes

For complete package outlines, refer to pages PO-1 through PO-6

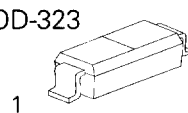
## General Purpose, Switching and Rectifier

Type	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )					Case			
	$V_{RM}$ V	$I_F$ mA	$V_{BR}$ V	$I_R$ at $V_R$ $\mu\text{A}$	$V_R$ V	$V_F$ at $I_F$ mA	$t_{rr}$ ns	Style	Lead Code	Leaded Equiv.	
BAL74	50	250	50	$\leq 0.10$	50	$\leq 1.00$	100	$\leq 4.0$	SOT23	34	-
BAL99	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT23	35	-
BAR74	50	250	50	$\leq 0.10$	50	$\leq 1.00$	100	$\leq 4.0$	SOT23	15	-
BAR99	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT23	36	-
BAS16	85	250	75	$\leq 1.00$	75	$\leq 1.25$	150	$\leq 6.0$	SOT23	15	-
BAS16W	85	250	75	$\leq 1.00$	75	$\leq 1.25$	150	$\leq 6.0$	SOT323	15	-
BAS19	120	250	120	$\leq 0.10$	120	$\leq 1.25$	200	$\leq 50.0$	SOT23	15	-
BAS20	200	250	200	$\leq 0.10$	200	$\leq 1.25$	200	$\leq 50.0$	SOT23	15	-
BAS21	250	250	250	$\leq 0.10$	250	$\leq 1.25$	200	$\leq 50.0$	SOT23	15	-
BAS28 (Dual)	85	250	85	$\leq 1.00$	75	$\leq 1.25$	150	$\leq 6.0$	SOT143	37	-
BAS78A	50	1000	50	$\leq 1.00$	50	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	82	-
BAS78B	100	1000	100	$\leq 1.00$	100	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	82	-
BAS78C	200	1000	200	$\leq 1.00$	200	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	82	-
BAS78D	400	1000	400	$\leq 1.00$	400	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	82	-
BAS79A (Dual)	50	1000	50	$\leq 1.00$	50	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	39	-
BAS79B (Dual)	100	1000	100	$\leq 1.00$	100	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	39	-
BAS79C (Dual)	200	1000	200	$\leq 1.00$	200	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	39	-
BAS79D (Dual)	400	1000	400	$\leq 1.00$	400	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT223	39	-
BAS116	85	250	75	$\leq 5(\text{nA})$	75	$\leq 1.25$	150	$\leq 3.0$ $\mu\text{s}$	SOT23	15	-
BAV70 (Dual)	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT23	16	-
BAV70W (Dual)	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT323	16	-
BAV74 (Dual)	50	250	50	$\leq 0.10$	50	$\leq 1.00$	100	$\leq 4.0$	SOT23	16	-
BAV99 (Dual)	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT23	18	-
BAV99W (Dual)	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT323	18	-
BAV170 (Dual)	70	250	70	$\leq 5(\text{nA})$	70	$\leq 1.25$	150	$\leq 3.0$ $\mu\text{s}$	SOT23	16	-
BAV199 (Dual)	70	250	70	$\leq 5(\text{nA})$	70	$\leq 1.25$	150	$\leq 3.0$ $\mu\text{s}$	SOT23	18	-
BAW56 (Dual)	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT23	17	-
BAW56W (Dual)	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT323	17	-
BAW78A	50	1000	50	$\leq 1.00$	50	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	38	-
BAW78B	100	1000	100	$\leq 1.00$	100	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	38	-
BAW78C	200	1000	200	$\leq 1.00$	200	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	38	-
BAW78D	400	1000	400	$\leq 1.00$	400	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	38	-
BAW79A (Dual)	50	1000	50	$\leq 1.00$	50	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	41	-
BAW79B (Dual)	100	1000	100	$\leq 1.00$	100	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	41	-
BAW79C (Dual)	200	1000	200	$\leq 1.00$	200	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	41	-
BAW79D (Dual)	400	1000	400	$\leq 1.00$	400	$\leq 2.00$	2000	1.0 $\mu\text{s}$	SOT89	41	-
BAW100 (Dual)	70	250	70	$\leq 2.50$	70	$\leq 1.25$	150	$\leq 6.0$	SOT143	40	-
BAW101 (Dual)	300	200	300	$\leq 0.15$	250	$\leq 1.30$	100	1.0 $\mu\text{s}$	SOT143	37	-
BAW156 (Dual)	70	250	70	$\leq 5(\text{nA})$	70	$\leq 1.25$	150	$\leq 3.0$ $\mu\text{s}$	SOT23	17	-
BGX50A (Bridge)	70	140	50	$\leq 0.20$	50	$\leq 2.60$	100	$\leq 6.0$	SOT143	42	-
SMBD914	100	250	100	$\leq 5.00$	75	$\leq 1.00$	10	$\leq 4.0$	SOT23	15	-
SMBD2835 (Dual)	75	250	75	$\leq 0.10$	30	$\leq 1.20$	100	$\leq 6.0$	SOT23	17	-
SMBD2836 (Dual)	75	250	75	$\leq 0.10$	50	$\leq 1.20$	100	$\leq 6.0$	SOT23	17	-

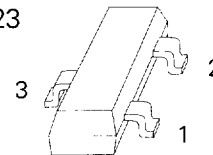
SOD-123



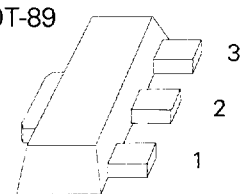
SOD-323



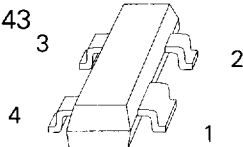
SOT-23



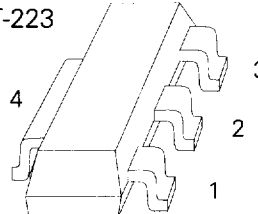
SOT-89



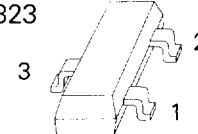
SOT-143



SOT-223



SOT-323



# Diodes

For complete package outlines, refer to pages PO-1 through PO-6

## General Purpose, Switching and Rectifier - continued

Type	Maximum Ratings		Characteristics ( $T_A=25^\circ\text{C}$ )						Case		
	$V_{RM}$ V	$I_F$ mA	$V_{BR}$ V	$I_R$ at $\mu\text{A}$	$V_R$ V	$V_F$ at V	$I_F$ mA	$t_{rr}$ ns	Style	Lead Code	Leaded Equiv.
SMBD2837 (Dual)	75	250	75	$\leq 0.10$	30	$\leq 1.20$	100	$\leq 6.0$	SOT23	16	-
SMBD2838 (Dual)	75	250	75	$\leq 0.10$	50	$\leq 1.20$	100	$\leq 6.0$	SOT23	16	-
SMBD6050	70	250	70	$\leq 0.10$	50	$\leq 1.10$	100	$\leq 10.0$	SOT23	15	-
SMBD6100 (Dual)	70	250	70	$\leq 0.10$	50	$\leq 1.10$	100	$\leq 15.0$	SOT23	16	-
SMBD7000 (Dual)	100	250	100	$\leq 0.50$	100	$\leq 1.10$	100	$\leq 15.0$	SOT23	18	-

## Schottky Diodes

Type	Maximum Ratings			Characteristics ( $T_A=25^\circ\text{C}$ )						Case		
	$V_{BR}$ V	$I_{FRM}$ mA	$C_D$ pF	$I_R$ at $\mu\text{A}$	$V_R$ V	$V_F$ at mV	$I_F$ mA	$V_F$ at mV	$I_F$ mA	Style	Lead Code	Leaded Equiv.
BAS40	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT23	15	-
BAS40-04 (Dual)	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT23	18	-
BAS40-04W (Dual)	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT323	18	-
BAS40-05 (Dual)	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT23	16	-
BAS40-05W (Dual)	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT323	16	-
BAS40-06 (Dual)	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT23	17	-
BAS40-06W (Dual)	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT323	17	-
BAS40-07 (Dual)	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOT143	37	-
BAS70	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT23	15	-
BAS70-04 (Dual)	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT23	18	-
BAS70-04W (Dual)	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT323	18	-
BAS70-05 (Dual)	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT23	16	-
BAS70-05W (Dual)	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT323	16	-
BAS70-06 (Dual)	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT23	17	-
BAS70-06W (Dual)	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT323	17	-
BAS70-07 (Dual)	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOT143	37	-
BAS125	25	100	$\leq 1.10$	$\leq 1.00$	20	$\leq 400$	1.0	$\leq 950$	35	SOT23	15	-
BAS125-04 (Dual)	25	100	$\leq 1.10$	$\leq 1.00$	20	$\leq 400$	1.0	$\leq 950$	35	SOT23	18	-
BAS125-05 (Dual)	25	100	$\leq 1.10$	$\leq 1.00$	20	$\leq 400$	1.0	$\leq 950$	35	SOT23	16	-
BAS125-06 (Dual)	25	100	$\leq 1.10$	$\leq 1.00$	20	$\leq 400$	1.0	$\leq 950$	35	SOT23	17	-
BAS125-07 (Dual)	25	100	$\leq 1.10$	$\leq 1.00$	20	$\leq 400$	1.0	$\leq 950$	35	SOT143	37	-
BAS140W	40	100	$\leq 5.00$	$\leq 1.00$	30	$\leq 380$	1.0	$\leq 1000$	40	SOD323	14	-
BAS170W	70	50	$\leq 2.00$	$\leq 0.10$	50	$\leq 410$	1.0	$\leq 1000$	15	SOD323	14	-
BAT14-098	4	90	$\leq 0.35$	5.00	4	450	1.0	550	10	SOD123	14	-
BAT14-099 (Dual)	4	90	$\leq 0.35$	5.00	4	450	1.0	550	10	SOT143	43	-
BAT14-099R (Quad)*	-	90	0.38	-	-	230	1.0	480	10	SOT143	83	-
BAT15-098	4	110	$\leq 0.35$	5.00	4	230	1.0	320	10	SOD123	14	-
BAT15-099 (Dual)	4	110	$\leq 0.35$	5.00	4	320	1.0	410	10	SOT143	43	-
BAT15-099R (Quad)*	-	110	0.38	-	-	230	1.0	320	10	SOT143	83	-
BAT17	4	130	$\leq 1.00$	$\leq 0.25$	3	$\leq 350$	0.1	$\leq 600$	10	SOT23	15	-
BAT17-04 (Dual)	4	130	$\leq 1.00$	$\leq 0.25$	3	$\leq 350$	0.1	$\leq 600$	10	SOT23	18	-
BAT17-05 (Dual)	4	130	$\leq 1.00$	$\leq 0.25$	3	$\leq 350$	0.1	$\leq 600$	10	SOT23	16	-
BAT17-06 (Dual)	4	130	$\leq 1.00$	$\leq 0.25$	3	$\leq 350$	0.1	$\leq 600$	10	SOT23	17	-
BAT17-07 (Dual)	4	130	$\leq 1.00$	$\leq 0.25$	3	$\leq 350$	0.1	$\leq 600$	10	SOT143	37	-
BAT62 (Dual)	40	20	0.35	10.00	40	580	2.0	-	-	SOT143	44	-
BAT62-03W	40	20	0.35	10.00	40	580	2.0	-	-	SOD323	14	-
BAT63 (Dual)	3	100	0.65	10.00	3	190	1.0	-	-	SOT143	44	-
BAT63-03W	3	100	0.65	10.00	3	190	1.0	-	-	SOD323	14	-
BAT64	30	230	6.00	2.00	25	$\leq 440$	10.0	$\leq 800$	100	SOT23	15	-
BAT64-04 (Dual)	30	230	6.00	2.00	25	$\leq 440$	10.0	$\leq 800$	100	SOT23	18	-
BAT64-05 (Dual)	30	230	6.00	2.00	25	$\leq 440$	10.0	$\leq 800$	100	SOT23	16	-
BAT64-06 (Dual)	30	230	6.00	2.00	25	$\leq 440$	10.0	$\leq 800$	100	SOT23	17	-

\* Crossover Ring

# Diodes

For complete package outlines, refer to pages PO-1 through PO-6

## Schottky Diodes - continued

Type	Maximum Ratings			Characteristics ( $T_A = 25^\circ\text{C}$ )						Case		
	$V_{BR}$ V	$I_{FRM}$ mA	$C_D$ pF	$I_R$ at $\mu\text{A}$	$V_R$ V	$V_F$ at mV	$I_F$ mA	$V_F$ at mV	$I_F$ mA	Style	Lead Code	Leaded Equiv.
BAT64-07 (Dual)	30	230	6.00	2.00	25	$\leq 440$	10.0	$\leq 800$	100	SOT143	37	-
BAT65	30	500	8.00	5.00	25	320	10.0	530	500	SOD123	14	-
BAT66	30	1000	40.0	10.00	25	350	10.0	600	1000	SOT223	82	-
BAT66-05 (Dual)	30	2000	40.0	10.00	25	350	10.0	600	1000	SOT223	39	-
BAT68	8	130	$\leq 1.00$	0.10	1	$\leq 340$	1.0	$\leq 500$	10	SOT23	15	-
BAT68-03W	8	30	$\leq 1.00$	0.10	1	$\leq 340$	1.0	$\leq 500$	10	SOD323	14	-
BAT68-04 (Dual)	8	130	$\leq 1.00$	0.10	1	$\leq 340$	1.0	$\leq 500$	10	SOT23	18	-
BAT68-05 (Dual)	8	130	$\leq 1.00$	0.10	1	$\leq 340$	1.0	$\leq 500$	10	SOT23	16	-
BAT68-06 (Dual)	8	130	$\leq 1.00$	0.10	1	$\leq 340$	1.0	$\leq 500$	10	SOT23	17	-
BAT68-07 (Dual)	8	130	$\leq 1.00$	0.10	1	$\leq 340$	1.0	$\leq 500$	10	SOT23	37	-
BAT69	30	1000	40	10.00	25	$\leq 350$	10.0	$\leq 600$	1000	SOD123	14	-
BAT114-099 (Dual)	-	90	0.25	-	-	580	1.0	680	10	SOT143	43	-
BAT114-099R (Quad)*	-	90	0.25	-	-	580	1.0	680	10	SOT143	83	-

\* Crossover Ring

