

Commercial Diodes: MSP-1300 Series

Surface Mount (SOT) PIN Diodes

Description

Designed specifically for high volume commercial applications, these PIN switching diodes offer low loss, high isolation and fast switching speed. The PIN attenuator diodes are designed for wide dynamic range and low distortion applications. MicroMetrics offers a wide variety of specifications and configurations. Please see configuration table and consult factory for availability.

Features

- Available in tape and reel
- Small and high volume commercial applications
- Low series resistance
- Low capacitance

Packaging

- SOT 23, SOD 323, SOT 143



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Electrical Characteristics

V_b @ 10 μ A V DC MIN	C_t @ 50 V pF MAX	R_s @ 0.01 mA Ω MIN	R_s @ 1 mA Ω MAX	R_s @ 10 mA Ω MAX	R_s @ 100 mA Ω MAX	T_1 μ Sec TYP	Part Number ³
50	0.30	200	06.0	01.5	1.0	0.2	MSP1300-01-001
100	0.30	300	08.5	03.0	1.5	0.6	MSP1301-01-001
50	1.00	40	01.5	00.5	0.4	0.2	MSP1301-05-001
200	0.30	800	20.0	03.0	1.5	1.0	MSP1302-01-001
200	0.30	1000	50.0	08.0	2.0	3.0	MSP1304-01-001
200	0.30	1000	50.0	08.0	2.0	3.0	MSP1304-12-005
200	0.30	1500	120.	15.0	3.0	4.0	MSP1307-01-001
50	0.30	200	06.0	01.5	1.0	0.2	MSP1310-12-005
50	0.30	200	06.0	01.5	1.0	0.2	MSP1310-13-004
50	1.00	40	01.5	00.5	0.4	0.2	MSP1312-12-005
50	1.00	40	01.5	00.5	0.4	0.2	MSP1312-13-004

1. Series Tee Configuration 2. Common Cathode Configuration 3. 3 digit part number suffix indicates configuration. Refer to case styles.

V_b @ 10 μ A V DC MIN	C_t -10 V pF MAX	R_s @ 1 mA MAX	R_s @ 10 mA MAX	R_s @ 50 mA MAX	T_1 nSec TYP	Part Number ¹
50	0.3	3.5	1.5	1.1	100	MSP1350-01-323

1. 3 digit part number suffix indicates configuration. Refer to case styles.

