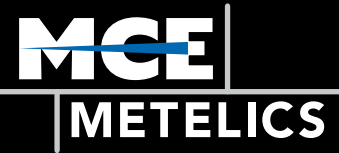


SURFACE MOUNT SOT23 SMPN SERIES PIN DIODES FOR RF SWITCHING AND ATTENUATING



FEATURES

Surface Mount Package

- Tape and Reel Available

Reliability

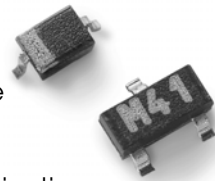
- Gold Metallized Chip
- Silicon Nitride/Glass Passivation

Low Series Resistance

Low Capacitance

Wide Dynamic Range

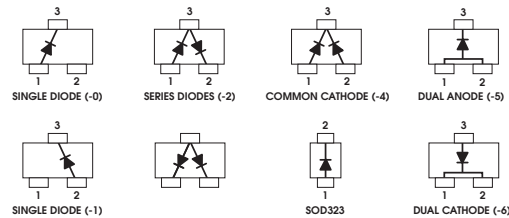
Specials are available upon request.



DESCRIPTION/APPLICATIONS

These PIN diodes are specifically designed for commercial applications requiring devices in the SOT-23 surface mount package. The series in low profile has options for bulk or tape and reel. This series offers a wide range of specifications and package configurations to give the designer wide flexibility.

Typical applications of these PIN diodes are switches, phase shifters, pulse and amplitude modulators, limiters, leveling circuits and attenuators.



Package Terminal Identification Code

PIN DIODES ELECTRICAL SPECIFICATIONS @ 25°C

Part Number	ID Code*	VBR Min. (V)	CT Typ. (pF)	Series Resistance @100mA Rs(ohms) Typ f=100 MHz	Series Resistance @10mA Rs(ohms) Typ f=100 MHz	Carrier Lifetime Typ. TL(ns) IF=10mA IR=6mA
PIN ATTENUATOR DIODES		@10uA	@1 MHz			
SMPN7453-SOT23	0 S	200	0.35 @50V	0.80	2.5	2500
SMPN7453-SOT23	1 S	200	0.35 @50V	0.80	2.5	2500
SMPN7453-SOT23	2 ST	200	0.45 @50V	0.80	2.5	2500
SMPN7453-SOT23	3 CA	200	0.45 @50V	0.80	2.5	2500
SMPN7453-SOT23	4 CC	200	0.45 @50V	0.80	2.5	2500
SMPN7380-SOT23	0 S	200	0.35 @50V	1.00	3.0	1500
SMPN7380-SOT23	1 S	200	0.35 @50V	1.00	3.0	1500
SMPN7380-SOT23	2 ST	200	0.45 @50V	1.00	3.0	1500
SMPN7380-SOT23	3 CA	200	0.45 @50V	1.00	3.0	1500
SMPN7380-SOT23	4 CC	200	0.45 @50V	1.00	3.0	1500

PIN SWITCHING DIODES

SMPN7310-SOT23	0 S	100	0.30 @5V	0.60	1.0	120
SMPN7310-SOT23	1 S	100	0.30 @5V	0.60	1.0	120
SMPN7310-SOT23	2 ST	100	0.40 @5V	0.60	1.0	120
SMPN7310-SOT23	3 CA	100	0.40 @5V	0.60	1.0	120
SMPN7310-SOT23	4 CC	100	0.40 @5V	0.60	1.0	120
SMPN7316-SOT23	0 S	100	0.30 @5V	0.60	1.0	200
SMPN7316-SOT23	1 S	100	0.30 @5V	0.60	1.0	200
SMPN7316-SOT23	2 ST	100	0.40 @5V	0.60	1.0	200
SMPN7316-SOT23	3 CA	100	0.40 @5V	0.60	1.0	200
SMPN7316-SOT23	4 CC	100	0.40 @5V	0.60	1.0	200

PIN GENERAL PURPOSE DIODES

SMPN7335-SOT23	0 S	200	0.30 @50V	1.50	2.0	500
SMPN7335-SOT23	1 S	200	0.30 @50V	1.50	2.0	500
SMPN7335-SOT23	2 ST	200	0.40 @50V	1.50	2.0	500
SMPN7335-SOT23	3 CA	200	0.40 @50V	1.50	2.0	500
SMPN7335-SOT23	4 CC	200	0.40 @50V	1.50	2.0	500

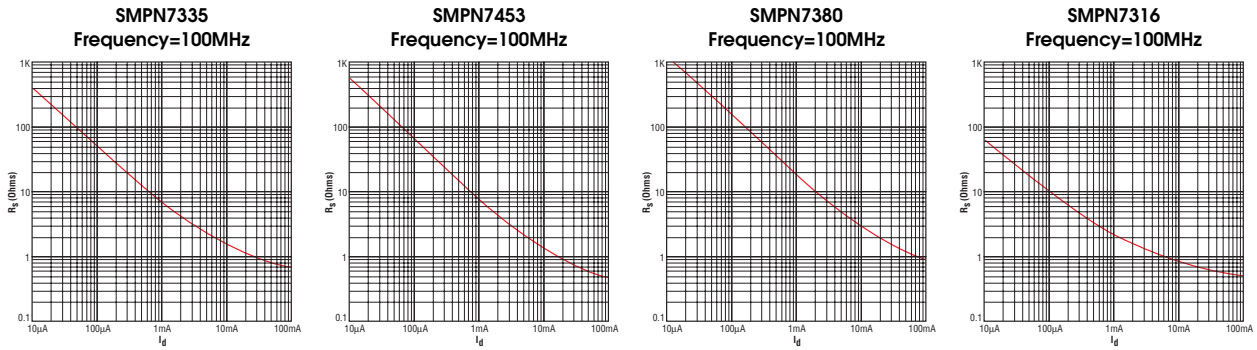
PIN LOW CAPACITANCE FOR HIGH FREQUENCY APPLICATIONS

SMPN7320-SOT23	0 S	100	0.20 @10V	2.00	4.0	170
SMPN7320-SOT23	1 S	100	0.20 @10V	2.00	4.0	170
SMPN7320-SOT23	2 ST	100	0.30 @10V	2.00	4.0	170
SMPN7320-SOT23	3 CA	100	0.30 @10V	2.00	4.0	170
SMPN7320-SOT23	4 CC	100	0.30 @10V	2.00	4.0	170

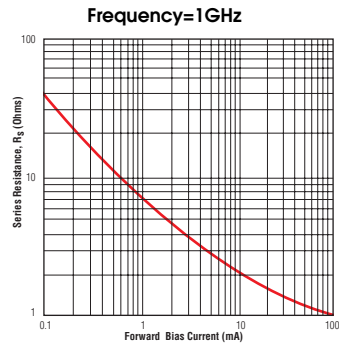
*0,1,S=Single; 2,ST=Series Tee; 3,CA=Common Anode; 4,CC=Common Cathode

Also available in SOD323 package.

TYPICAL RESISTANCE CURVES @ 100MHZ



SMPN7310



SMPN7320

