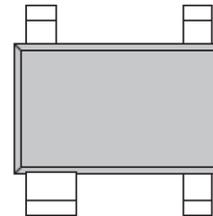


Features

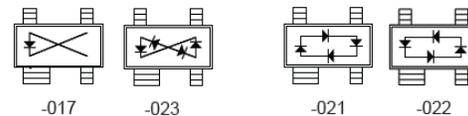
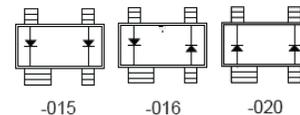
- Low Series Resistance
- Low Capacitance
- Wide Dynamic Range
- Silicon Nitride / Glass Passivation
- SOT143 Surface Mount Package
- RoHS* Compliant



Description

These Schottky diodes are specifically designed for commercial applications requiring devices in the SOT143 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 Schottky diodes are up converters, down converters, mixers, detectors, phase detectors, pulse and amplitude modulators, and temperature compensation circuits.



Electrical Specifications: @ +25°C, Voltage Breakdown = 2 V min. @ 10 μ A

Part # ¹	Minimum Breakdown Voltage @ 10 μ A	Typical Forward Voltage @ 1 mA	Maximum Total Capacitance @ 0 V, 1 MHz	Maximum Dynamic Resistance @ 10 mA
	mV	mV	pF	Ω
Split Pair				
SMSP3004	2	270	0.65	10
SMSP3012	2	270	0.40	15
Crossover Quad / Ring Quad¹				
SMSxx1200	2	270	0.40	15
SMSxx1500	2	270	0.65	8
SMSxx2500	2	400	0.65	10
SMSxx4500	3	600	0.65	8
SMSxx5500	3	1100	0.55	16

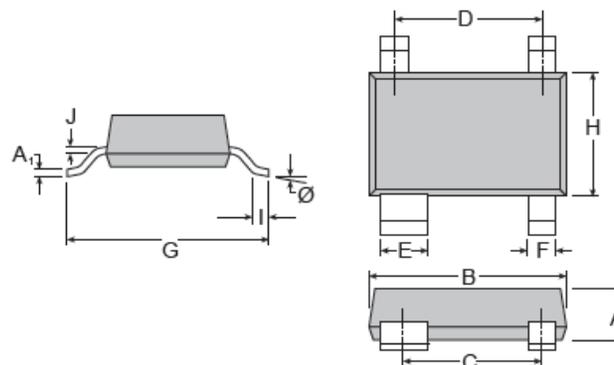
1. Replace xx in part number with CQ (crossover quad) or RQ (ring quad).

* Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

Absolute Maximum Ratings

Parameter	Absolute Maximum
Forward Current	1 A, 1 μ s pulse
Peak Inverse Voltage	Same as V_{BR}
Power Dissipation	250 mW, derate linearly to 0 @ 150°C
Operating / Storage Temperature	-65°C to +150°C

Outline Drawing - SOT143



Dim.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.79	1.02	0.031	0.040
A ₁	0.02	0.10	0.001	0.004
B	2.67	3.05	0.105	0.120
C	1.78	20.3	0.070	0.080
D	1.80	2.00	0.071	0.079
E	0.77	0.94	0.030	0.037
F	0.38	0.54	0.015	0.021
G	2.10	2.50	0.083	0.098
H	1.20	1.40	0.047	0.065
I	0.13	0.25	0.005	0.010
J	0.089	0.15	0.0035	0.0059
Ø	0.0	8.0	0.0	0.8

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