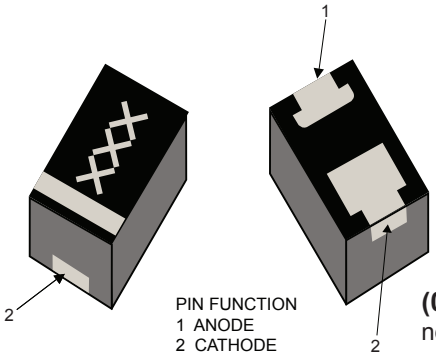
MSWSE-044-10

Silicon PIN Diode Switch Element



(0805P)
non-hermetic

Description

The MSWSE-044-010 is a PIN diode SPST switch element designed for medium incident power applications, up to 40W C.W. It has low insertion loss and medium isolation below 2.0 GHz.

Features

- Broadband performance up to 2.0 GHz
- Cost effective choice for switch applications

Maximum Ratings

RATING	LIMITS	UNITS
V_R	300	V
I_F	200	mA
θ_{JC}	20	°C / W
T_J	+175	°C
T_{STG}	-55 to +150	°C
T_{SOLDER}	+260 °C per JEDEC STD-J-20C	

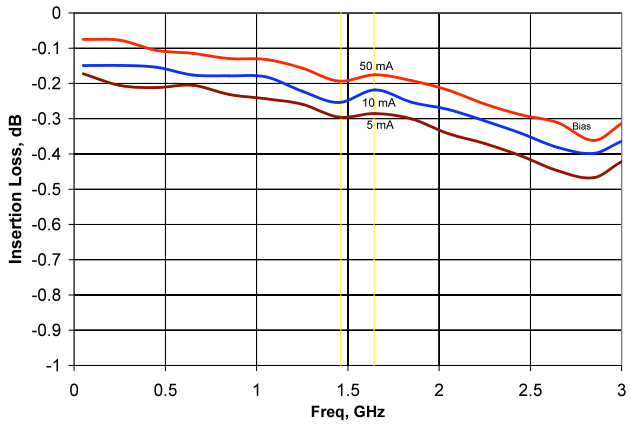
Electrical Characteristics, T_C = +25 °C

SYMBOL	TEST CONDITIONS			MIN	TYPICAL	MAX	UNITS
V_{BR}	I_R = 10 µA			300	–	–	V
V_F	I_F = 50 mA			–	900	1000	mV
C_T	V_R = 10 V		F = 1 MHz	–	0.30	0.40	pF
R_S	I_F = 100 mA		F = 500 MHz	–	0.5	0.70	Ω
τ	I_F = 10 mA	I_R = 6 mA	measured at 50%	–	1200	–	ns
W	I - Layer			–	40	–	µm
I_L	I_F = 10 mA		F < 1.0 GHz	–	0.20	0.30	dB
			F < 2.0 GHz	–	0.25	0.35	dB
I_{SO}	V_R = 50 V		F < 1.0 GHz	11	14	–	dB
			F < 2.0 GHz	–	10	–	dB

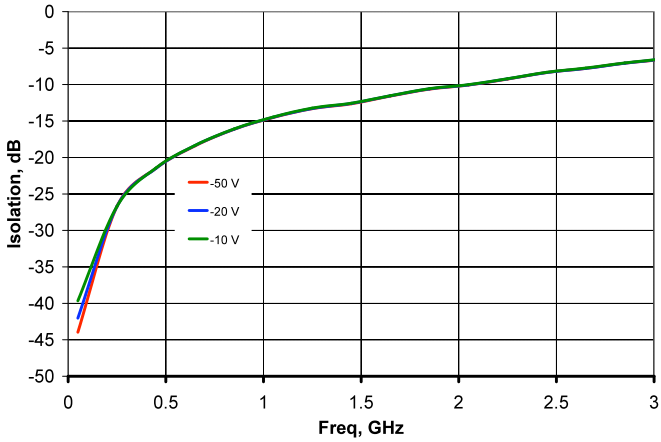
AEROFLEX METELICS

Revision Date: 10/20/2011

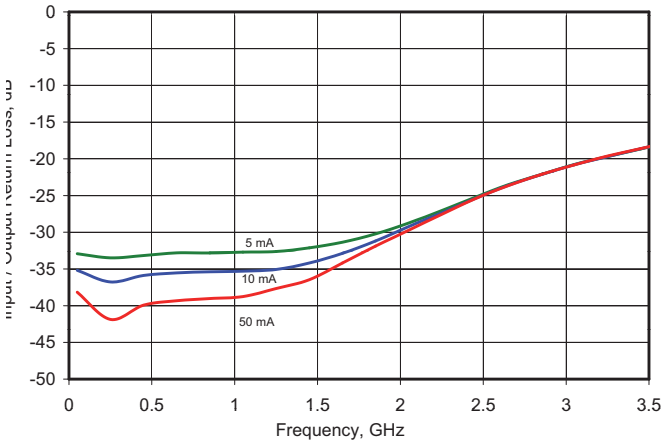
Insertion Loss



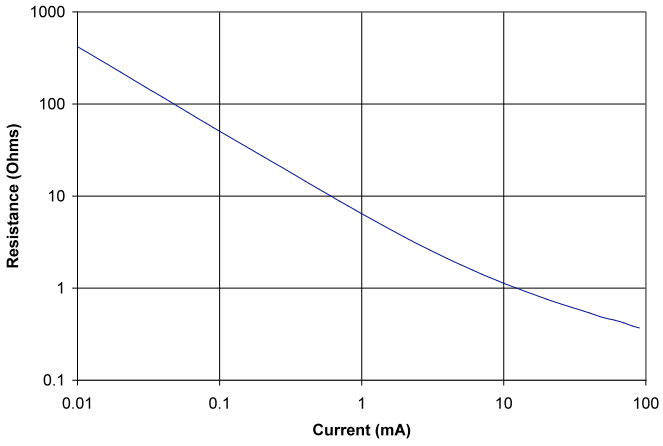
Isolation



Input Return Loss

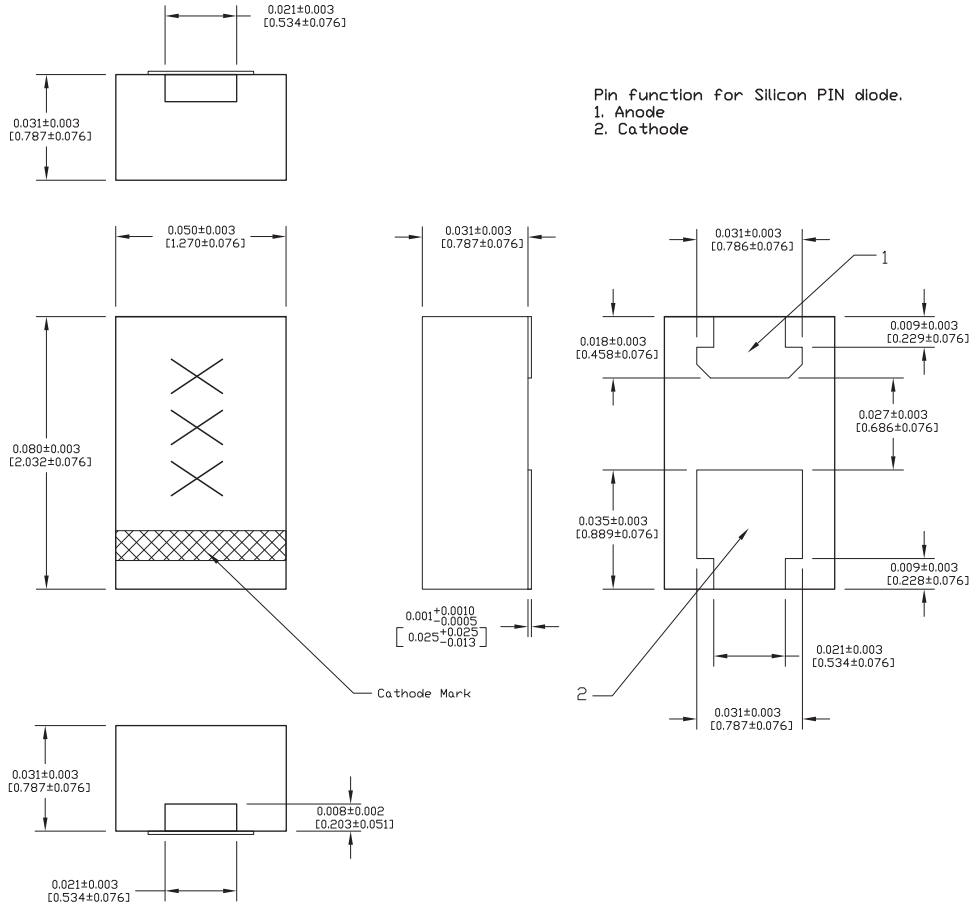


Series Resistance vs. Current

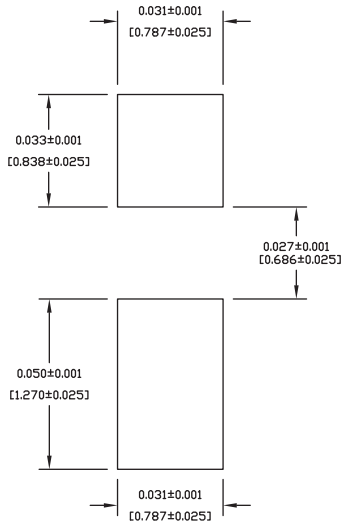


MSWSE-044-10

Package Outline

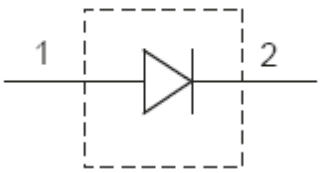


DFN 0805P PACKAGE



SOLDERING FOOTPRINT

Schematic



Revision Date: 10/20/2011

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