

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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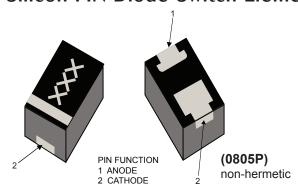
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MSWSE-044-10 Silicon PIN Diode Switch Element







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		
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}	$I_R = 10 \mu A$			300	_	_	V
$V_{\rm F}$	$I_F = 50 \text{ mA}$			_	900	1000	mV
\mathbf{C}_{T}	$V_R = 10 \text{ V}$		F= 1 MHz	_	0.30	0.40	pF
R_s	$I_F = 100 \text{ mA}$		F = 500 MHz	_	0.5	0.70	Ω
τ	$I_F = 10 \text{ mA}$	$I_R = 6 \text{ mA}$	measured at 50%	_	1200	_	ns
W	I - Layer			_	40	_	μ m
I _L	$I_F = 10 \text{ mA}$		F< 1.0 GHz	_	0.20	0.30	dB
			F < 2.0 GHz	_	0.25	0.35	dB
I _{so}	$V_R = 50 \text{ V}$		F< 1.0 GHz	11	14	_	dB
			F < 2.0 GHz	_	10	_	dB

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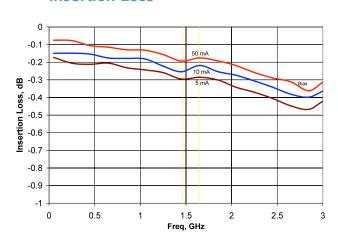


n Date: 10/20/2011

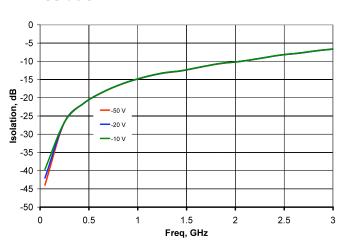


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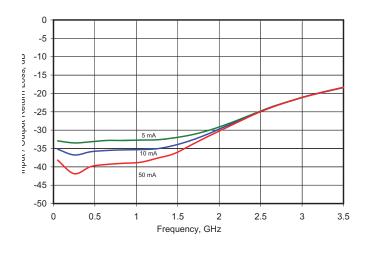
Insertion Loss



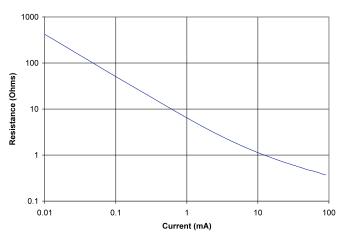
Isolation



Input Return Loss



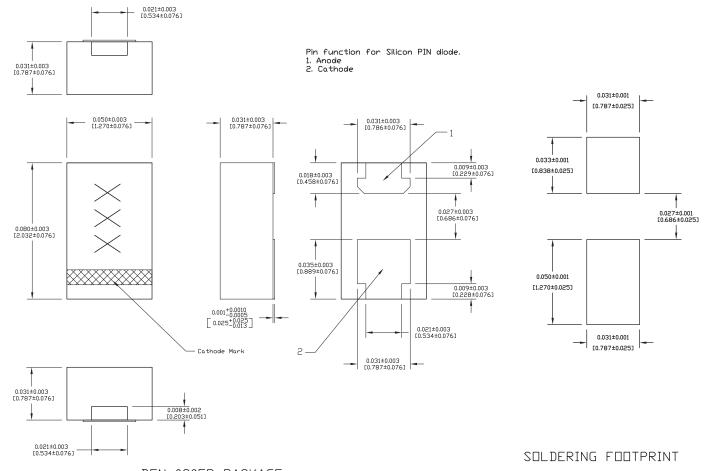
Series Resistance vs. Current



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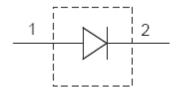


Package Outline



DFN 0805P PACKAGE

Schematic





MSWSE-044-10

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