

# **SPICE Model**



MA4P506-1072 rev B Jan 20, 2020

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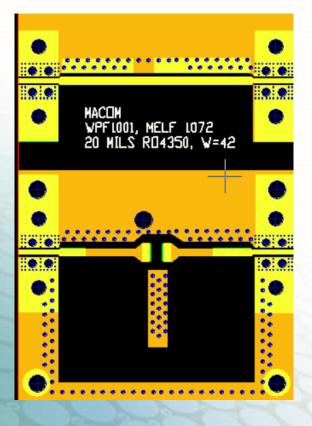
#### Results

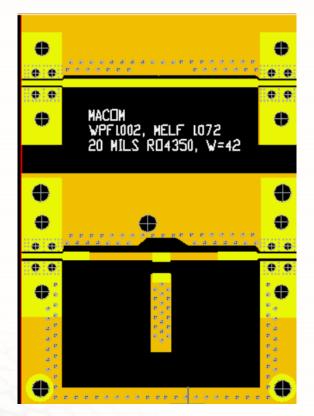
- IV Curve
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## **Test Fixture Series and Shunt**



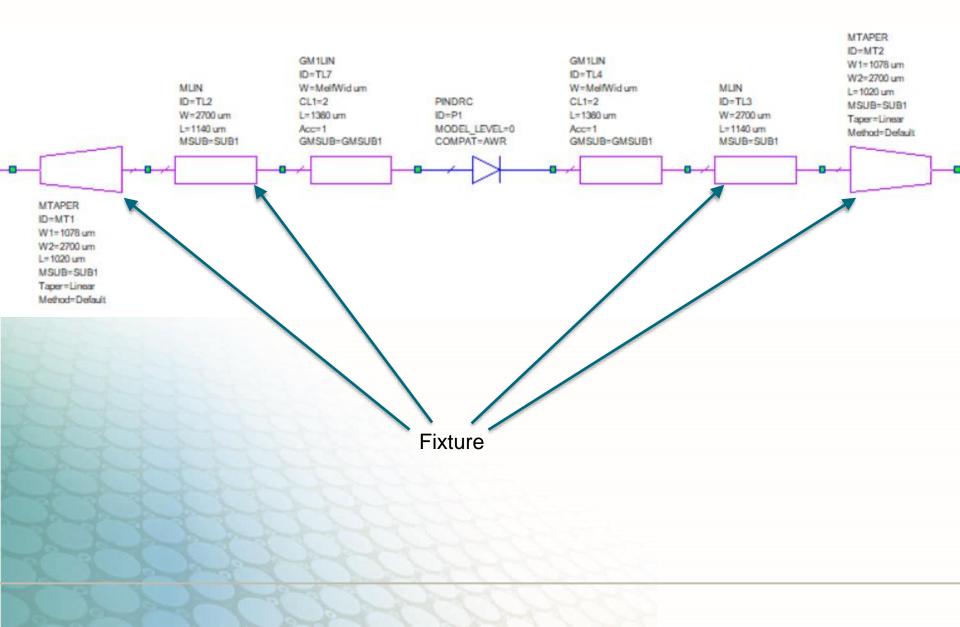
- 20 mils Rogers RO4350 with 1 oz copper
- S-parameters measured with port extensions such that the reference plane is set to the beginning of the transmission line taper for the series MELF and set to the edge of the package for the shunt MELF





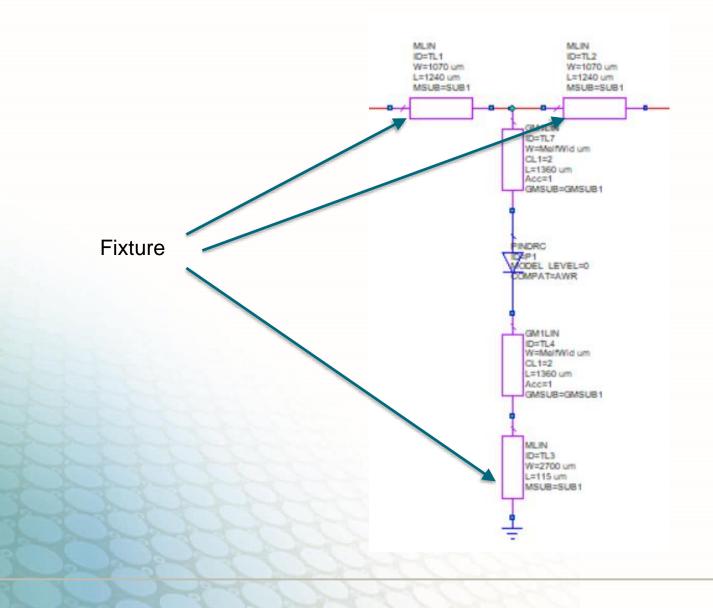
#### **Test Fixture Series**





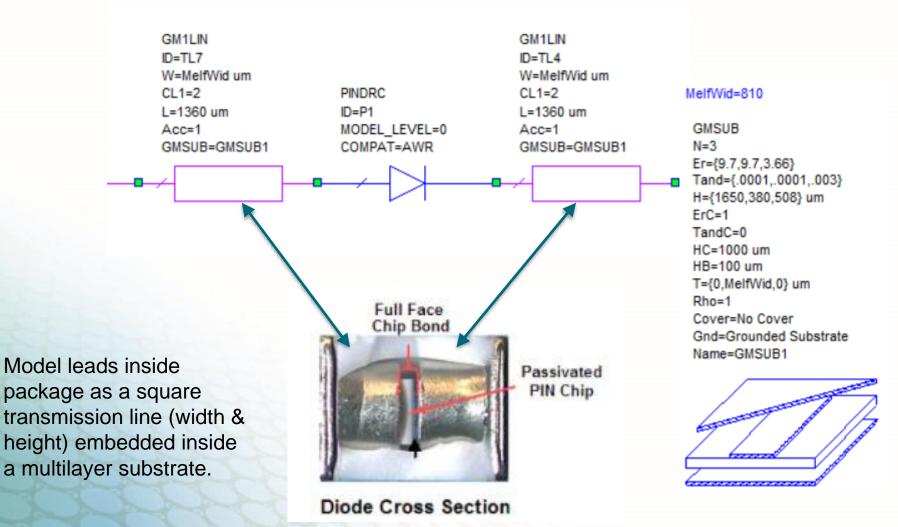
#### **Test Fixture Shunt**





# Package

млсом



# **Robert Caverly PIN Diode Model**



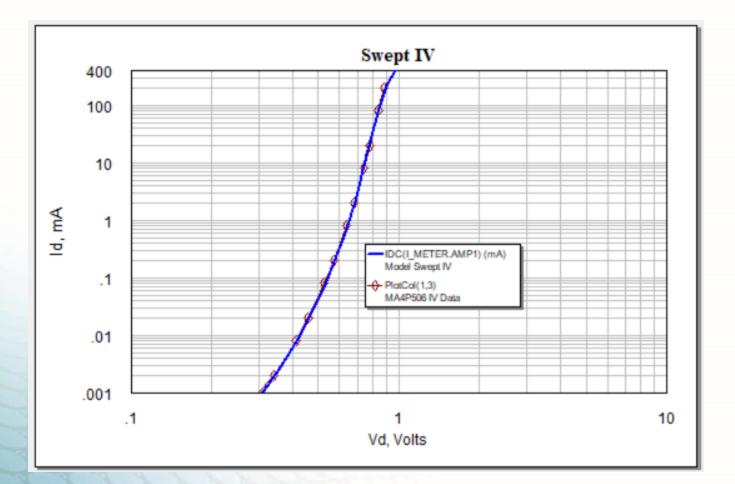
		_
ID	P1	
IS	Is	mA
IKNEE	Iknee	mA
N	Npin	
RLIM	Rlim	Ohm
REPI	Repi	Ohm
CJ	Cj	pF
CPKG	Cpkg	pF
TAU	LT	ns
W	W	
В	3	
LBOND	Lpkg	nH
TNOM	26.85	DegC
TEMP	26.85	DegC
AREA	1	
NFLAG	Noise Off	
MODEL_LEVEL	0	
COMPAT	AWR	

Is=2.5e-06 Iknee=3.7 Npin=0.98 Repi=1000 LT=2180 W=51 Cj=0.53 Rlim=0.15 Cpkg=0.3 Lpkg=0.2



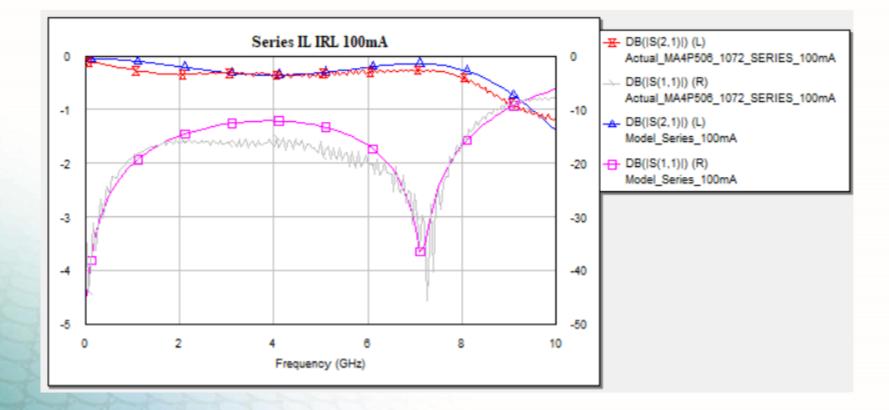
# **IV Curve**





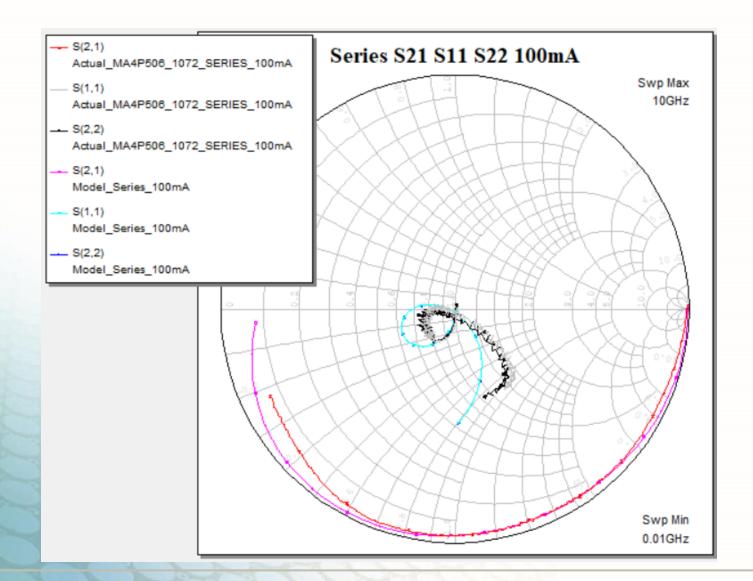
#### Series 100 mA





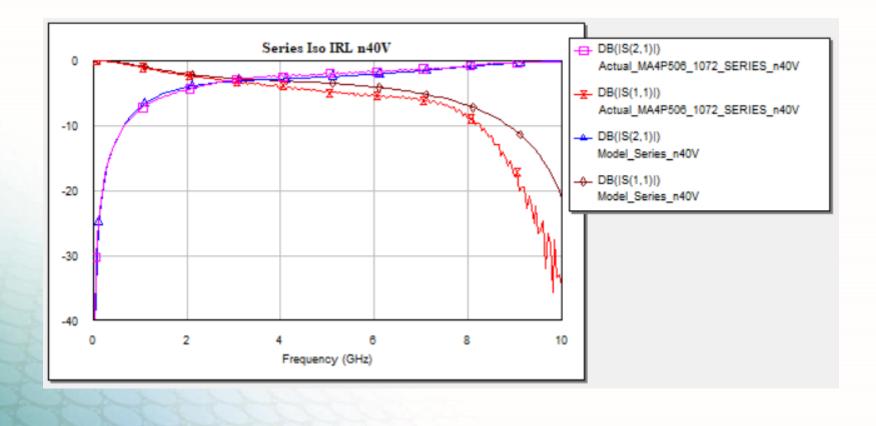
## Series 100 mA





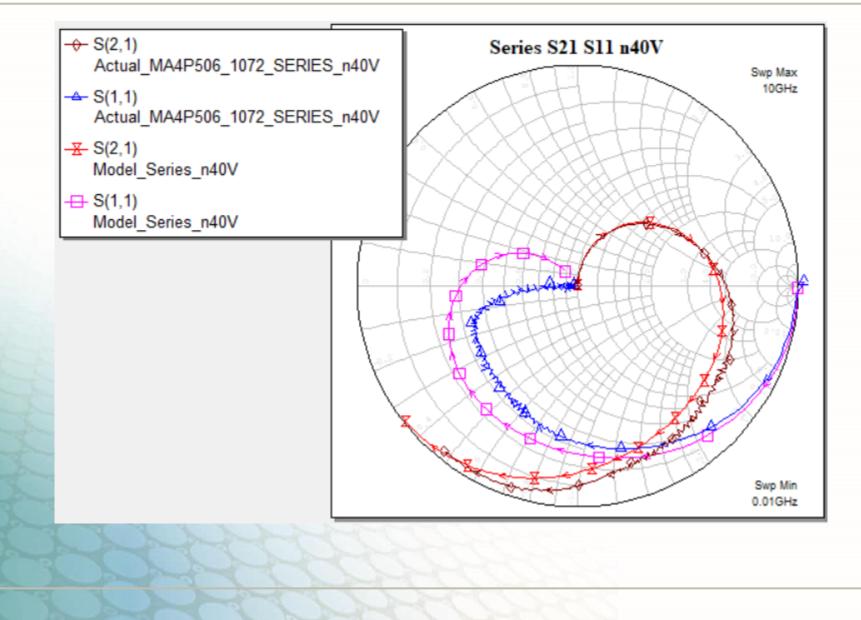
#### Series -40 V





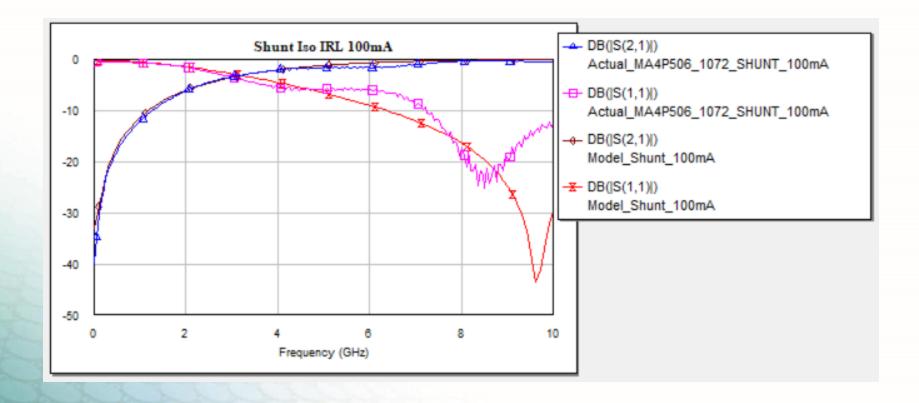
## Series -40 V





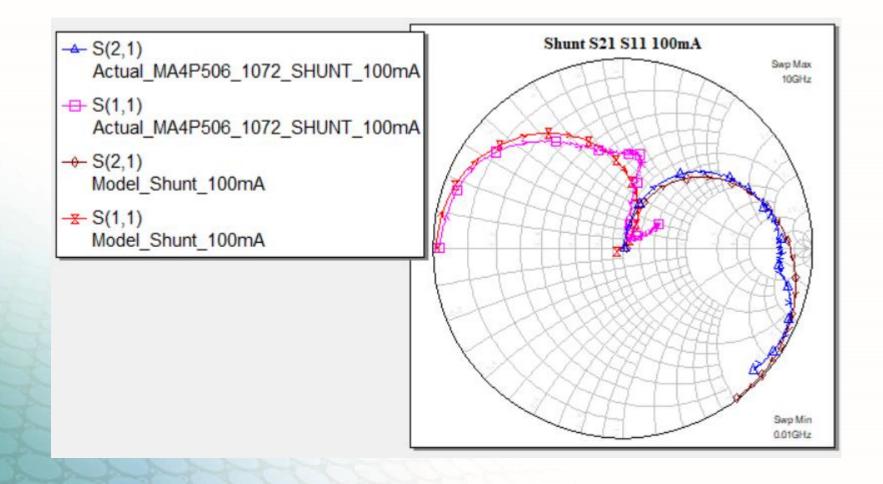
## Shunt 100 mA





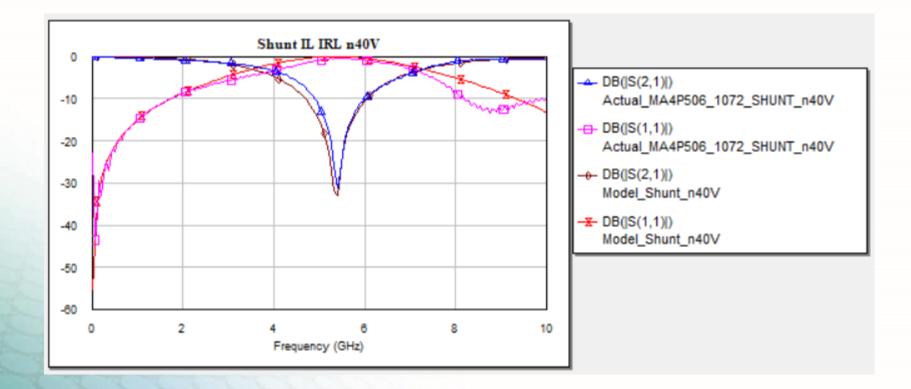
# Shunt 100 mA





#### Shunt -40 V





Shunt -40 V



