



**Agilent Technologies**

**Advanced Design System 2002  
Vendor Component Libraries  
High-Frequency Diode Library**

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# Chapter 1: High-Frequency Diode Library

The High-Frequency Diode Library consists of nonlinear models representing 164 diodes from 7 manufacturers. The DIODEs available for selection from the Schematic window are:

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**Note** The library itself is a binary file named *HfDiodeLibrary.library* which can be found in *\$HPEESOF\_DIR/ComponentLibs/models*.

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# Agilent Technologies Diodes

The Agilent Technologies Diodes include 83 components, representing individual parts. The naming convention for these components is *di\_hp\_<part number>\_<extraction date>*.

Table 1-1. Agilent Technologies Diodes

Component Name	Description
di_hp_HBAT540B_20000301	HBAT540B: SOT323 Package 3-terminal, HBAT-540x single
di_hp_HSMS282C_20000301	HSMS282C: SOT323 Package 3-terminal, HSMS-282x series pair
di_hp_HSMS281E_20000301	HSMS281E: SOT323 Package 3-terminal, HSMS-281x common anode pair
di_hp_HSMS286C_20000301	HSMS286C: SOT323 Package 3-terminal, HSMS-286x series pair
di_hp_HSMS282K_20000301	HSMS282K: SOT363 Package 6-terminal, HSMS-282x High isolation unconnected pair
di_hp_HSMS2800_20000301	HSMS2800: SOT23 Package 3-terminal, HSMS-280x single
di_hp_HSMS286K_20000301	HSMS286K: SOT363 Package 6-terminal, HSMS-286x High isolation unconnected pair
di_hp_HSMS8202_20000301	HSMS8202: SOT23 Package 3-terminal, HSMS-820x series pair
di_hp_HSMS2824_20000301	HSMS2824: SOT23 Package 3-terminal, HSMS-282x common cathode pair
di_hp_HSMS2808_20000301	HSMS2808: SOT143 Package 4-terminal, HSMS-280x bridge quad
di_hp_HSMS2864_20000301	HSMS2864: SOT23 Package 3-terminal, HSMS-286x common cathode pair
di_hp_HSMS270C_20000301	HSMS270C: SOT323 Package 3-terminal, HSMS-270x series
di_hp_HBAT540C_20000301	HBAT540C: SOT323 Package 3-terminal, HBAT-540x series
di_hp_HSMS281F_20000301	HSMS281F: SOT323 Package 3-terminal, HSMS-281x common cathode pair
di_hp_HSMS282L_20000301	HSMS282L: SOT363 Package 6-terminal, HSMS-282x unconnected trio
di_hp_HSMS280P_20000301	HSMS280P: SOT363 Package 6-terminal, HSMS-280x bridge quad
di_hp_HSMS286L_20000301	HSMS286L: SOT363 Package 6-terminal, HSMS-286x unconnected trio

**Table 1-1. Agilent Technologies Diodes (continued)**

<b>Component Name</b>	<b>Description</b>
di_hp_HSMS2825_20000301	HSMS2825: SOT143 Package 4-terminal, HSMS-282x unconnected pair
di_hp_HSMS2817_20000301	HSMS2817: SOT143 Package 4-terminal, HSMS-281x ring quad
di_hp_HSMS2865_20000301	HSMS2865: SOT143 Package 4-terminal, HSMS-286x unconnected pair
di_hp_HSMS282E_20000301	HSMS282E: SOT323 Package 3-terminal, HSMS-282x common anode pair
di_hp_HSMS286E_20000301	HSMS286E: SOT323 Package 3-terminal, HSMS-286x common anode pair
di_hp_HSMS282M_20000301	HSMS282M: SOT363 Package 6-terminal, HSMS-282x common cathode quad
di_hp_HSMS2810_20000301	HSMS2810: SOT23 Package 3-terminal, HSMS-281x single
di_hp_HSMS2802_20000301	HSMS2802: SOT23 Package 3-terminal, HSMS-280x series
di_hp_HSMS2850_20000301	HSMS2850: SOT23 Package 3-terminal, HSMS-285x single
di_hp_HSMS2818_20000301	HSMS2818: SOT143 Package 4-terminal, HSMS-281x bridge quad
di_hp_HSMS280B_20000301	HSMS280B: SOT323 Package 3-terminal, HSMS-280x single
di_hp_HSMS282F_20000301	HSMS282F: SOT323 Package 3-terminal, HSMS-282x common cathode pair
di_hp_HSMS286F_20000301	HSMS286F: SOT323 Package 3-terminal, HSMS-286x common cathode pair
di_hp_HSMS282N_20000301	HSMS282N: SOT363 Package 6-terminal, HSMS-282x common anode quad
di_hp_HSMS280R_20000301	HSMS280R: SOT363 Package 6-terminal, HSMS-280x ring quad
di_hp_HSMS2803_20000301	HSMS2803: SOT23 Package 3-terminal, HSMS-280x common anode pair
di_hp_HSMS8205_20000301	HSMS8205: SOT143 Package 4-terminal, HSMS-820x unconnected pair
di_hp_HSMS285P_20000301	HSMS285P: SOT363 Package 6-terminal, HSMS-285x bridge quad
di_hp_HSMS2827_20000301	HSMS2827: SOT143 Package 4-terminal, HSMS-282x ring quad
di_hp_hsms2818_19930908	hsms2818: SOT143, SCHOTTKY if(max)=35, Vr(max)=20, P(max)=250, General RF

Table 1-1. Agilent Technologies Diodes (continued)

Component Name	Description
di_hp_HSMS280C_20000301	HSMS280C: SOT323 Package 3-terminal, HSMS-280x series pair
di_hp_HSMS280K_20000301	HSMS280K: SOT363 Package 6-terminal, HSMS-280x High isolation unconnected pair
di_hp_HSMS8101_20000301	HSMS8101: SOT23 Package 3-terminal, HSMS-820x single
di_hp_HSMS2820_20000301	HSMS2820: SOT23 Package 3-terminal, HSMS-282x single
di_hp_HSMS2812_20000301	HSMS2812: SOT23 Package 3-terminal, HSMS-281x series pair
di_hp_HSMS2804_20000301	HSMS2804: SOT23 Package 3-terminal, HSMS-280x common cathode pair
di_hp_HSMS2860_20000301	HSMS2860: SOT23 Package 3-terminal, HSMS-286x single
di_hp_HSMS2852_20000301	HSMS2852: SOT23 Package 3-terminal, HSMS-285x series
di_hp_HSMS2828_20000301	HSMS2828: SOT143 Package 4-terminal, HSMS-282x bridge quad
di_hp_HSMS281B_20000301	HSMS281B: SOT323 Package 3-terminal, HSMS-281x single
di_hp_HSMS285B_20000301	HSMS285B: SOT323 Package 3-terminal, HSMS-285x single
di_hp_HSMS280L_20000301	HSMS280L: SOT363 Package 6-terminal, HSMS-280x unconnected trio
di_hp_HSMS2700_20000301	HSMS2700: SOT23 Package 3-terminal, HSMS-270x single
di_hp_HSMS282P_20000301	HSMS282P: SOT363 Package 6-terminal, HSMS-282x bridge quad
di_hp_HBAT5400_20000301	HBAT5400: SOT23 Package 3-terminal, HBAT-540x single
di_hp_HSMS2813_20000301	HSMS2813: SOT23 Package 3-terminal, HSMS-281x common anode pair
di_hp_HSMS2805_20000301	HSMS2805: SOT143 Package 4-terminal, HSMS-280x unconnected pair
di_hp_HSMS286P_20000301	HSMS286P: SOT363 Package 6-terminal, HSMS-286x bridge quad
di_hp_HSMS8207_20000301	HSMS8207: SOT143 Package 4-terminal, HSMS-820x ring quad
di_hp_HSMS2829_20000301	HSMS2829: SOT143 Package 4-terminal, HSMS-282x crossover quad
di_hp_HSMS281C_20000301	HSMS281C: SOT323 Package 3-terminal, HSMS-281x series pair
di_hp_HSMS280E_20000301	HSMS280E: SOT323 Package 3-terminal, HSMS-280x common anode pair



**Table 1-1. Agilent Technologies Diodes (continued)**

<b>Component Name</b>	<b>Description</b>
di_hp_HSMS285C_20000301	HSMS285C: SOT323 Package 3-terminal, HSMS-285x series pair
di_hp_HSMS281K_20000301	HSMS281K: SOT363 Package 6-terminal, HSMS-281x High isolation unconnected pair
di_hp_HSMS280M_20000301	HSMS280M: SOT363 Package 6-terminal, HSMS-280x common cathode quad
di_hp_HSMS2822_20000301	HSMS2822: SOT23 Package 3-terminal, HSMS-282x series
di_hp_HSMS2814_20000301	HSMS2814: SOT23 Package 3-terminal, HSMS-281x common cathode pair
di_hp_hsms2805_19930908	hsms2805: SOT143, SCHOTTKY if(max)=15, Vr(max)=70, P(max)=250, General RF
di_hp_HSMS2862_20000301	HSMS2862: SOT23 Package 3-terminal, HSMS-286x series
di_hp_HSMS282B_20000301	HSMS282B: SOT323 Package 3-terminal, HSMS-282x single
di_hp_HSMS280F_20000301	HSMS280F: SOT323 Package 3-terminal, HSMS-280x common cathode pair
di_hp_HSMS286B_20000301	HSMS286B: SOT323 Package 3-terminal, HSMS-286x single
di_hp_HSMS281L_20000301	HSMS281L: SOT363 Package 6-terminal, HSMS-281x unconnected trio
di_hp_HSMS280N_20000301	HSMS280N: SOT363 Package 6-terminal, HSMS-280x common anode quad
di_hp_HSMS285L_20000301	HSMS285L: SOT363 Package 6-terminal, HSMS-285x unconnected trio
di_hp_HSMS2702_20000301	HSMS2702: SOT23 Package 3-terminal, HSMS-270x series
di_hp_HSMS282R_20000301	HSMS282R: SOT363 Package 6-terminal, HSMS-282x ring quad
di_hp_HBAT5402_20000301	HBAT5402: SOT23 Package 3-terminal, HBAT-540x series
di_hp_HSMS2823_20000301	HSMS2823: SOT23 Package 3-terminal, HSMS-282x common anode pair
di_hp_HSMS2815_20000301	HSMS2815: SOT143 Package 4-terminal, HSMS-281x unconnected pair
di_hp_HSMS2807_20000301	HSMS2807: SOT143 Package 4-terminal, HSMS-280x ring quad
di_hp_HSMS286R_20000301	HSMS286R: SOT363 Package 6-terminal, HSMS-286x ring quad

Table 1-1. Agilent Technologies Diodes (continued)

Component Name	Description
di_hp_HSMS8209_20000301	HSMS8209: SOT143 Package 4-terminal, HSMS-820x cross over quad
di_hp_HSMS2863_20000301	HSMS2863: SOT23 Package 3-terminal, HSMS-286x common anode pair
di_hp_HSMS2855_20000301	HSMS2855: SOT143 Package 4-terminal, HSMS-285x unconnected pair
di_hp_HSMS270B_20000301	HSMS270B: SOT323 Package 3-terminal, HSMS-270x single

## Hitachi Diodes

The Hitachi Diodes include 11 components, representing individual parts. The naming convention for these components is *di\_hit\_<part number>\_<extraction date>*.

Table 1-2. Hitachi Diodes

Component Name	Description
di_hit_1ss166_19930908	1ss166: UMD, SCHOTTKY if(max)=15, Vr(max)=10, P(max)=150, CATV Mixer
di_hit_hsm2694_19930908	hsm2694: SOT23, PN if(max)=NA, Vr(max)=35, P(max)=150, Tuner Band Switch
di_hit_hsm88as_19930908	hsm88as: SOT23, SCHOTTKY if(max)=15, Vr(max)=10, P(max)=NA, CATV Mixer
di_hit_hsu277_19930908	hsu277: URP, PN if(max)=NA, Vr(max)=NA, P(max)=NA, NA
di_hit_hsr276_19930908	hsr276: SRP, SCHOTTKY if(max)=30, Vr(max)=3, P(max)=NA, Tuner Mixer
di_hit_hvu306a_19930908	hvu306a: URP, PN if(max)=NA, Vr(max)=NA, P(max)=NA, NA
di_hit_hsk120_19930908	hsk120: LLD, PN if(max)=150, Vr(max)=60, P(max)=NA, High Speed Switching
di_hit_hvm14s_19930908	hvm14s: SOT23, PN if(max)=50, Vr(max)=50, P(max)=100, VHF/UHF Attenuator
di_hit_hvu202_19930908	hvu202: URP, PN if(max)=NA, Vr(max)=NA, P(max)=NA, NA

Table 1-2. Hitachi Diodes (continued)

Component Name	Description
di_hit_hsb88ws_19930908	hsb88ws: MOP, SCHOTTKY if(max)=15, Vr(max)=10, P(max)=150, CATV Mixer
di_hit_hsm276s_19930908	hsm276s: SOT23, SCHOTTKY if(max)=30, Vr(max)=3, P(max)=NA, CATV Mixer

## Motorola Diodes

The Motorola Diodes include 40 components, representing individual parts. The naming convention for these components is *di\_mot\_<part number>\_<extraction date>*.

Table 1-3. Motorola Diodes

Component Name	Description
di_mot_mmbv3102l_19930908	mmbv3102l: SOT23, PN if(max)=200, Vr(max)=30, P(max)=200, VHF Tuning
di_mot_mbd101_19930908	mbd101: 182-02, SCHOTTKY if(max)=NA, Vr(max)=4, P(max)=280, UHF Mixer
di_mot_1n5444a_19930908	1n5444a: 51-02, PN if(max)=NA, Vr(max)=30, P(max)=400, Tuning, UHF
di_mot_baw56lt1_19930908	baw56lt1: SOT23, PN if(max)=NA, Vr(max)=70, P(max)=NA, Low Current Switching
di_mot_mmbv109l_19930908	mmbv109l: SOT23, PN if(max)=200, Vr(max)=30, P(max)=200, VHF Tuning
di_mot_mmbv2101l_19930908	mmbv2101l: SOT23, PN if(max)=200, Vr(max)=30, P(max)=200, FM/TV Tuning
di_mot_mmbv2105l_19930908	mmbv2105l: SOT23, PN if(max)=200, Vr(max)=30, P(max)=200, FM/TV Tuning
di_mot_mmbv2109l_19930908	mmbv2109l: SOT23, PN if(max)=200, Vr(max)=30, P(max)=200, FM/TV Tuning
di_mot_mv2115_19930908	mv2115: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning
di_mot_mv2107_19930908	mv2107: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning
di_mot_1n5453a_19930908	1n5453a: 51-02, PN if(max)=NA, Vr(max)=30, P(max)=400, Tuning, UHF

Table 1-3. Motorola Diodes (continued)

Component Name	Description
di_mot_mv7005t1_19930908	mv7005t1: SOT223, PN if(max)=50, Vr(max)=15, P(max)=280, High Capacitance Tuning
di_mot_bav99lt1_19930908	bav99lt1: SOT23, PN if(max)=NA, Vr(max)=70, P(max)=NA, Low Current Switching
di_mot_mmbd353lt1_19930908	mmbd353lt1: SOT23, SCHOTTKY if(max)=NA, Vr(max)=4, P(max)=225, UHF-VHF Mixer/Detector
di_mot_mv2109_19930908	mv2109: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning
di_mot_1n5139a_19930908	1n5139a: 51-02, PN if(max)=250, Vr(max)=60, P(max)=400, Tuning, UHF
di_mot_mv7404t1_19930908	mv7404t1: SOT223, PN if(max)=NA, Vr(max)=NA, P(max)=NA, NA
di_mot_1n5148_19930908	1n5148: 51-02, PN if(max)=250, Vr(max)=60, P(max)=400, Tuning, UHF
di_mot_bav70lt1_19930908	bav70lt1: SOT23, PN if(max)=50, Vr(max)=70, P(max)=NA, Low Current Switching
di_mot_mmbv105gl_19930908	mmbv105gl: SOT23, PN if(max)=200, Vr(max)=30, P(max)=200, VHF Tuning
di_mot_mmbv409l_19930908	mmbv409l: SOT23, PN if(max)=200, Vr(max)=20, P(max)=225, VHF Tuning
di_mot_mmbv609l_19930908	mmbv609l: SOT23, PN if(max)=100, Vr(max)=20, P(max)=225, FM Tuning
di_mot_mmbv809l_19930908	mmbv809l: SOT23, PN if(max)=20, Vr(max)=20, P(max)=225, Tuning, 900 MHz
di_mot_mv409_19930908	mv409: 182-02, PN if(max)=200, Vr(max)=20, P(max)=280, VHF Tuning
di_mot_mv2111_19930908	mv2111: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning
di_mot_mmbd101l_19930908	mmbd101l: SOT23, SCHOTTKY if(max)=NA, Vr(max)=4, P(max)=280, UHF Mixer
di_mot_mmbd301l_19930908	mmbd301l: SOT23, SCHOTTKY if(max)=NA, Vr(max)=30, P(max)=280, UHF-VHF Detector
di_mot_mbd301_19930908	mbd301: 182-02, SCHOTTKY if(max)=NA, Vr(max)=30, P(max)=280, UHF-VHF Detector
di_mot_mv2112_19930908	mv2112: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning

**Table 1-3. Motorola Diodes (continued)**

<b>Component Name</b>	<b>Description</b>
di_mot_mv2104_19930908	mv2104: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning
di_mot_bas16t_19930908	bas16t: SOT23, PN if(max)=50, Vr(max)=75, P(max)=NA, Low Current Switching
di_mot_bal99lt1_19930908	bal99lt1: SOT23, PN if(max)=50, Vr(max)=70, P(max)=NA, Low Current Switching
di_mot_mv104_19930908	mv104: 29-04, PN if(max)=200, Vr(max)=32, P(max)=280, FM Tuning
di_mot_mv209_19930908	mv209: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, VHF Tuning
di_mot_mmbd352l_19930908	mmbd352l: SOT23, SCHOTTKY if(max)=NA, Vr(max)=4, P(max)=225, UHF-VHF Mixer/Detector
di_mot_mv2113_19930908	mv2113: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning
di_mot_mv2105_19930908	mv2105: 182-02, PN if(max)=200, Vr(max)=30, P(max)=280, FM/TV Tuning
di_mot_mmbd354lt1_19930908	mmbd354lt1: SOT23, SCHOTTKY if(max)=NA, Vr(max)=4, P(max)=NA, UHF-VHF Mixer/Detector
di_mot_1n5456a_19930908	1n5456a: 51-02, PN if(max)=NA, Vr(max)=30, P(max)=400, Tuning, UHF
di_mot_mmbv432l_19930908	mmbv432l: SOT23, PN if(max)=200, Vr(max)=14, P(max)=350, FM Tuning

## Philips Diodes

The Philips Diodes include 4 components, representing individual parts. The naming convention for these components is *di\_phl\_<part number>\_<extraction date>*.

**Table 1-4. Philips Diodes**

<b>Component Name</b>	<b>Description</b>
di_phl_bb219_19930908	bb219: SOD80, PN if(max)=20, Vr(max)=30, P(max)=NA, VHF Tuning
di_phl_bb804_19930908	bb804: SOT23, PN if(max)=50, Vr(max)=18, P(max)=NA, FM Tuning

Table 1-4. Philips Diodes (continued)

Component Name	Description
di_phl_bby31_19930908	bby31: SOT23, PN if(max)=20, Vr(max)=28, P(max)=NA, UHF Tuning
di_phl_bb215_19930908	bb215: SOD80, PN if(max)=20, Vr(max)=30, P(max)=NA, UHF Tuning

## Siemens Diodes

The Siemens Diodes include 19 components, representing individual parts. The naming convention for these components is *di\_sms\_<part number>\_<extraction date>*.

Table 1-5. Diodes

Component Name	Description
di_sms_bb833_19930908	bb833: SOD323, PN if(max)=20, Vr(max)=30, P(max)=NA, RF Tuning
di_sms_bb639_19930908	bb639: SOD323, PN if(max)=20, Vr(max)=30, P(max)=NA, RF Tuning
di_sms_bb640_19930908	bb640: SOD323, PN if(max)=20, Vr(max)=30, P(max)=NA, RF Tuning
di_sms_bb535_19930908	bb535: SOD323, PN if(max)=20, Vr(max)=30, P(max)=NA, VHF Tuning
di_sms_bat64_19930908	bat64: SOT23, SCHOTTKY if(max)=200, Vr(max)=30, P(max)=230, Bias Isolation, Clamping
di_sms_bav99_19930908	bav99: SOT23, SCHOTTKY if(max)=250, Vr(max)=70, P(max)=330, High Speed Switching
di_sms_bas70_19930908	bas70: SOT23, SCHOTTKY if(max)=15, Vr(max)=70, P(max)=NA, General Purpose RF
di_sms_bas70_04_19930908	bas70_04: SOT23, SCHOTTKY if(max)=15, Vr(max)=70, P(max)=NA, General Purpose RF
di_sms_bb619_19930908	bb619: SOD123, PN if(max)=20, Vr(max)=30, P(max)=NA, VHF/CATV Tuning
di_sms_bat15_099r_19930908	bat15_099r: SOT143, SCHOTTKY if(max)=110, Vr(max)=NA, P(max)=NA, NA
di_sms_bb620_19930908	bb620: SOD123, PN if(max)=20, Vr(max)=30, P(max)=NA, TV/VTR Tuning

Table 1-5. Diodes (continued)

Component Name	Description
di_sms_bas40_04_19930908	bas40_04: SOT23, SCHOTTKY if(max)=40, Vr(max)=40, P(max)=NA, General Purpose RF
di_sms_bb515_19930908	bb515: SOD123, PN if(max)=20, Vr(max)=30, P(max)=NA, VHF Tuning
di_sms_bas40_19930908	bas40: SOT23, SCHOTTKY if(max)=40, Vr(max)=40, P(max)=NA, General Purpose RF
di_sms_bb831_19930908	bb831: SOD323, PN if(max)=20, Vr(max)=30, P(max)=NA, RF Tuning
di_sms_bat14_099r_19930908	bat14_099r: SOT143, SCHOTTKY if(max)=90, Vr(max)=NA, P(max)=NA, NA
di_sms_bat62_19930908	bat62: SOT143, SCHOTTKY if(max)=20, Vr(max)=40, P(max)=NA, NA
di_sms_bby51_19930908	bby51: SOT23, PN if(max)=20, Vr(max)=7, P(max)=NA, RF Tuning
di_sms_bas125_19930908	bas125: SOT23, SCHOTTKY if(max)=40, Vr(max)=40, P(max)=NA, NA

## Sony Diodes

The Sony Diodes include 4 components, representing individual parts. The naming convention for these components is *di\_sny\_<part number>\_<extraction date>*.

Table 1-6. Sony Diodes

Component Name	Description
di_sny_1t33_19930908	1t33: M205, PN if(max)=NA, Vr(max)=30, P(max)=NA, CATV Tuning
di_sny_1t362_19930908	1t362: SOD323, PN if(max)=NA, Vr(max)=30, P(max)=NA, VHF-UHF Tuning
di_sny_1t363_19930908	1t363: SOD323, PN if(max)=NA, Vr(max)=30, P(max)=NA, CATV Tuning
di_sny_1t32_19930908	1t32: M205, PN if(max)=NA, Vr(max)=30, P(max)=NA, VHF-UHF Tuning

## Toshiba Diodes

The Toshiba Diodes include 3 components, representing individual parts. The naming convention for these components is *di\_tsb\_<part number>\_<extraction date>*.

Table 1-7. Toshiba Diodes

Component Name	Description
di_tsb_1sv186_19930908	1sv186: 1-2J1A, PN if(max)=NA, Vr(max)=30, P(max)=NA, UHF Tuning
di_tsb_1sv214_19930908	1sv214: SOD323, PN if(max)=NA, Vr(max)=30, P(max)=NA, TV Tuning
di_tsb_1sv215_19930908	1sv215: SOD323, PN if(max)=NA, Vr(max)=30, P(max)=NA, CATV Tuning



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