GENERAL PURPOSE ABRUPT VARACTOR DIODES
1N5139 - 1N5148
1N5139A - 1N5148A

PART NUMBER	CAPACITANCE @ 4 Vdc pF MIN	NOM	MAX	CAPACITANCE RATIO C•4V / C•60V MIN	MIN QUALITY FACTOR Q @ 4 Vdc f = 50 MHz
1N5139	6.12	6.8	7.48	2.7	350
♦ 1N5139A	6.46	6.8	7.14	2.7	350
1N5140	9.0	10.0	11.0	2.8	300
♦ 1N5140A	9.5	10.0	10.5	2.8	300
1N5141	10.8	12.0	13.2	2.8	300
♦ 1N5141A	11.4	12.0	12.6	2.8	300
1N5142	13.5	15.0	16.5	2.8	250
♦ 1N5142A	14.3	15.0	15.7	2.8	250
1N5143	16.2	18.0	19.8	2.8	250
♦ 1N5143A	17.1	18.0	18.9	2.8	250
1N5144	19.8	22.0	24.2	3.2	200
♦ 1N5144A	20.9	22.0	23.1	3.2	200
1N5145	24.3	27.0	29.7	3.2	200
♦ 1N5145A	25.7	27.0	28.3	3.2	200
1N5146	29.7	33.0	36.3	3.2	200
♦ 1N5146A	31.4	33.0	34.6	3.2	200
1N5147	36.1	39.0	42.9	3.2	200
♦ 1N5147A	37.1	39.0	40.9	3.2	200
1N5148	42.3	47.0	51.7	3.2	200
♦ 1N5148A	44.7	47.0	49.3	3.2	200

Package Style		**DO-7**
DC Power Dissipation (Pd)		**400 mW**
Forward Current (If)		**250 mA**
Min Reverse Breakdown Voltage (Bvr)	**@ Ir = 10 µAdc**	**65 Vdc**
Max Reverse Current (I_R)	**@ Vr = 55 Vdc**	**20 nAdc**
Max Reverse Current (I_{R2})	**@ Vr = 55 Vdc; Ta = 150°C**	**20 µAdc**
Temp Coefficient of Capacitance	**@ Vr=4 Vdc; Ta -40 to +85°C**	**.03%/°C**
Operating Temperature Range (Topr)		**-65 to + 175°C**
Storage Temperature Range (Tstg)		**-65 to + 200°C**
Voltage Tolerance:	**Standard Device**	**±10%**
	Suffix A	**± 5%**

♦ **DENOTES MILITARY APPROVAL FOR JAN - JANTX - JANTXV**

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