

**HERMETICALLY SEALED
GLASS PACKAGED TUNING DIODES**

ABRUPT - HYPERABRUPT UT

ELECTRICAL CHARACTERISTICS (T_A = 25° C unless otherwise noted)

Diode Cap. (CT)* ±10% @ 4V/1 MHz pF	GENERAL APPLICATIONS			LOW INDUCTANCE FOR USE TO 2.5 GHz			MINIATURE GLASS VERY HIGH Q			VERY HIGH Q PREDICTABLE TRACKING			GENERAL PURPOSE			pF
	TYPE NO	RATIO C ₂ /C ₂₀ min/typ	Q ₄ @ 50 MHz	TYPE NO	RATIO C ₂ /C ₂₀ min/max	Q ₄ @ 50 MHz min	TYPE NO	RATIO C ₂ /C ₃₀ min/typ	Q ₄ @ 50 MHz min	TYPE NO	RATIO C ₂ /C ₃₀ min/typ	Q ₄ @ 50 MHz min	TYPE NO	RATIO C ₄ /C ₂₅ min/typ	Q ₄ @ 50 MHz	
1.8																1.8
2.2																2.2
2.7																2.7
3.3																3.3
3.9																3.9
4.7																4.7
5.6																5.6
6.8	MV1620	2.0/2.5	300													6.8
8.2	MV1622	2.0/2.5	300													8.2
10.0	MV1624	2.0/2.5	300													10.0
12.0	MV1626	2.0/2.5	300													12.0
15.0	MV1628	2.0/2.5	250													15.0
18.0	MV1630	2.0/2.6	250													18.0
20.0	MV1632	2.0/2.6	250													20.0
22.0	MV1634	2.0/2.6	250													22.0
27.0	MV1636	2.0/2.6	200													27.0
33.0	MV1638	2.0/2.6	200													33.0
39.0	MV1640	2.0/2.6	200													39.0
47.0	MV1642	2.0/2.7	200													47.0
56.0	MV1644	2.0/2.7	150													56.0
68.0	MV1646	2.0/2.7	150													68.0
82.0	MV1648	2.0/2.7	150													82.0
100.0	MV1650	2.0/2.7	150													100.0
VR (min)	20 Vdc @ IR = 10 uAdc			25 Vdc @ IR = 10 uAdc			30 Vdc @ IR = 10 uAdc			30 Vdc @ IR = 10 uAdc			30 Vdc @ IR = 10 uAdc			
IR (max)	0.1 uAdc @ VR = 15 Vdc			0.5 uAdc @ VR = 20 Vdc			0.02 uAdc @ VR = 25 Vdc 2.0 uAdc @ TA = 150°C			0.02 uAdc @ VR = 25 Vdc 2.0 uAdc @ TA = 150°C			0.2 uAdc @ VR = 25 Vdc			
TCC1	300 ppm/°C			300 ppm/°C			300 ppm/°C			300 ppm/°C			300 ppm/°C			
Case	DO-7			DO-35			Miniature DO-7			DO-7			DO-7			

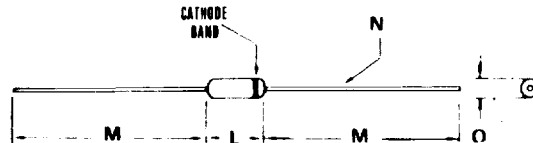
15 & 20 VOLTS				
	TYPE NO	RATIO C ₂ /C ₂₀ typ	Q ₄ @ 20 MHz min	
Diode Cap. (CT)*	120.0	MV1652	2.6	250
	150.0	MV1654	2.6	250
	180.0	MV1656	2.6	200
	200.0	MV1658	2.6	200
4V/1 MHz ± 10% pF	220.0	MV1660	2.6	150
	250.0	MV1662/3	2.3	150
	270.0	MV1664/3	2.3	100
	330.0	MV1666/3	2.3	100
VR (min)	20 Vdc @ IR = 10 uAdc MV1652/60 15 Vdc @ IR = 10 uAdc MV1662/66			
IR (max)	0.1 uAdc @ VR = 15 Vdc MV1652/60 0.1 uAdc @ VR = 10 Vdc MV1662/66			
TCC	300 ppm/°C			
Case	DO-14			

GENERAL SPECIFICATIONS

(25° C unless noted)

RATING	SYMBOL	VALUE
Reverse Voltage	VR	As SPECIFIED
Junction Temperature	T _j	+175°C Max
Storage Temperature	T _{stg}	-65°C to 200°C
Linear Power Degrating		4 mW/°C
Device Dissipation (mW Max)	PD	DO-35 400 MIN DO-7 250 DO-7 400 DO-14 500
Case Capacitance (pf Typ)	CC	0.10 0.15 0.2 0.3
Series Inductance (nhy Typ)	LS	1.5 3.0 5.0 5.0

PACKAGE CHARACTERISTICS



DIM	DO-35		Min DO-7		DO-7		DO-14	
	Min	Max	Min	Max	Min	Max	Min	Max
L		.180	0.150	0.176		0.300		0.300
M	1.00		1.000		1.000		1.000	
N	0.019	0.021	0.014	0.016	0.019	0.021	0.019	0.021
O	.075	.085	0.068	0.076	0.092	0.104	0.108	0.140

All dimensions in inches, to convert to millimeters, multiply by 25.4

For other types not listed here your representative or the fac requirements.