Silicon Tuning Diodes

These epitaxial passivated tuning diodes are designed for AFC applications in radio, TV, and general electronic-tuning.

- Maximum Working Voltage of 20 V
- Excellent Q Factor at High Frequencies
- Solid-State Reliability to Replace Mechanical Tuning Methods

2 O 1 Anode Cathode

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Reverse Voltage	VR	20	Vdc
Forward Current	١ _F	250	mAdc
Device Dissipation @ T _A = 25°C Derate above 25°C	PD	400 2.67	mW mW/°C
Junction Temperature	Тј	+175	°C
Storage Temperature Range	T _{stg}	-65 to +200	°C

MV1626 thru MV1650

6.8-100 pF 20 VOLTS VOLTAGE-VARIABLE CAPACITANCE DIODES



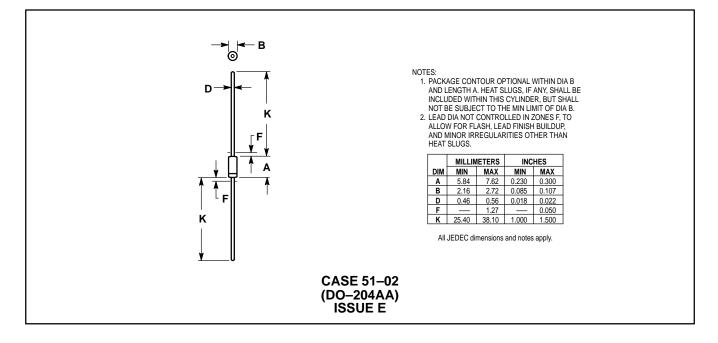
_	ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted)	
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Characteristic	Symbol	Min	Тур	Мах	Unit
Reverse Breakdown Voltage (I _R = 10 μAdc)	V _(BR) R	20	_		Vdc
Reverse Voltage Leakage Current ($V_R = 15 \text{ Vdc}, T_A = 25^{\circ}\text{C}$)	IR		_	0.10	μAdc
Series Inductance (f = 250 MHz, Lead Length $\approx 1/16''$)	LS		4.0		nH
Case Capacitance (f = 1.0 MHz, Lead Length $\approx 1/16''$)	с _С	_	0.17	_	pF

		C _T , Diode Capacitance V _R = 4.0 Vdc, f = 1.0 MHz pF		Q, Figure of Merit V _R = 4.0 Vdc, f = 50 MHz	TR, Tuning Ratio C ₂ /C ₂₀ f = 1.0 MHz	
Device	Min	Nom	Max	Тур	Min	Max
MV1626	10.8	12.0	13.2	300	2.0	3.2
MV1628	13.5	15.0	16.5	250	2.0	3.2
MV1630	16.2	18.0	19.8	250	2.0	3.2
MV1634	19.8	22.0	24.2	250	2.0	3.2
MV1638	29.7	33.0	36.3	200	2.0	3.2
MV1648	73.8	82.0	90.2	150	2.0	3.2
MV1650	90.0	100.0	110.0	150	2.0	3.2



PACKAGE DIMENSIONS



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