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HVM27WK

Variable Capacitance Diode for FM tuner



ADE-208-060C (Z) Rev. 3 Apl. 1993

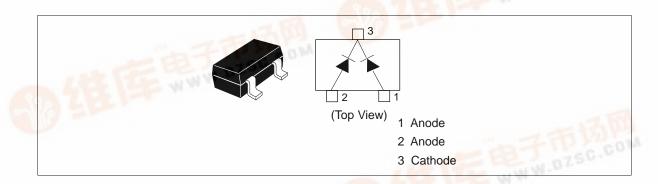
Features

- High capacitance ratio to wide tuning band width. $(C_1/C_8 = 1.8 \text{min})$
- Low series resistance.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code	
HVM27WK	T5	MPAK	- 5

Pin Arrangement



Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Value	Unit
Reverse voltage	V _R	20	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C



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ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse voltage	V _R	20			V	$I_{R} = 10\mu A$
Reverse current	I _R	_	_	50	nA	V _R = 15V
Capacitance	C ₁	52.0	_	62.0	pF	$V_R = 1V$, f = 1MHz
	C ₂	43.0	_	48.1		$V_{R} = 2V, f = 1MHz$
	C ₈	24.0	_	28.0		$V_{R} = 8V, f = 1MHz$
Capacitance ratio	n ₁	1.80	_	_	_	C ₁ /C ₈
	n ₂	1.70	_	_		
Series resistance	r _s	_	_	0.4	Ω	V _R = 2V, f = 100MHz
Matching error	$\Delta C/C^{*1}$	_		3.0	%	$V_R = 1 \text{ to } 8V$

Electrical Characteristics (Ta = 25°C)

Notes: 1. A set of HVM27WK is of uniform C-V characteristics.

Measure max. value and min. value of capacitance at each bias point of $V_{_{\rm R}}$ = 1V through 8V.

Calculate Matching Error,
$$\Delta C/C = \frac{(Cmax - Cmin)}{Cmin} \times 100$$
 (%)

2. Each group shall uniform a multiple of 4 diodes.

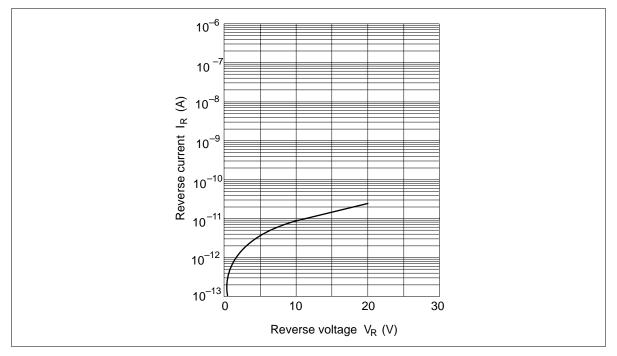


Fig.1 Reverse current Vs. Reverse voltage

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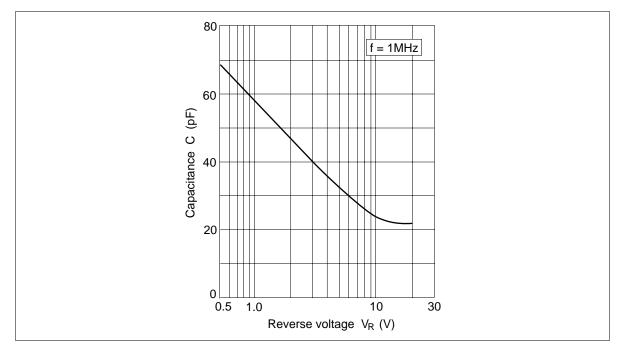
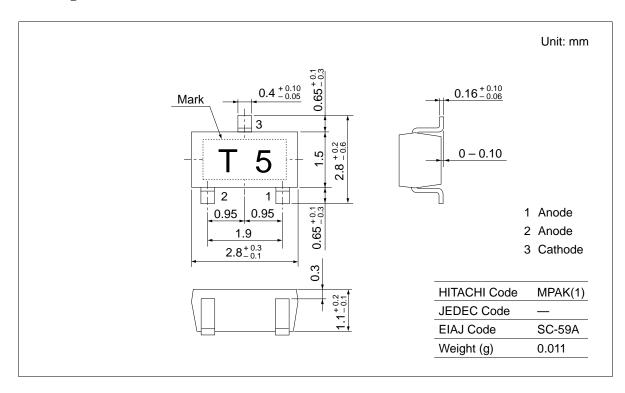


Fig.2 Capacitance Vs. Reverse voltage

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Package Dimensions



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