

## HVM16

### Variable Capacitance Diode for FM tuner

REJ03G0519-0600  
(Previous: ADE-208-086E)  
Rev.6.00  
Feb 17, 2005

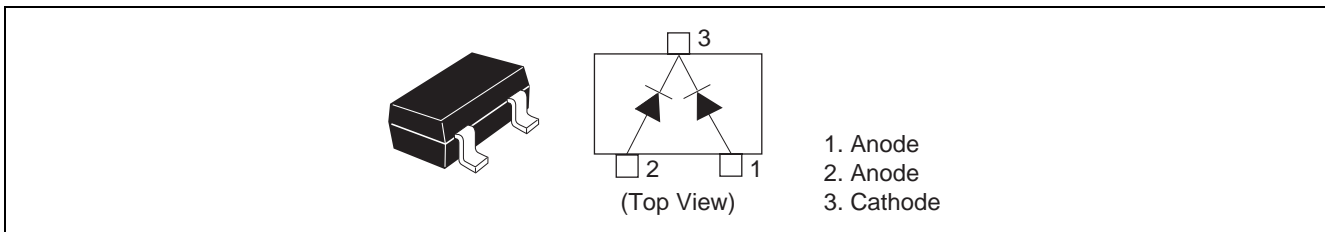
#### Features

- Worked by 8V, suitable for small manufacture sources of electric power.
- MPAK package is suitable for high density surface mounting and high speed assembly.

#### Ordering Information

Type No.	Laser Mark	Renesas Code	Previous Code
HVM16	T3	PLSP0003ZC-A	MPAK

#### Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	14	V
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

## Electrical Characteristics \*

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V <sub>R</sub>	14.0	—	—	V	I <sub>R</sub> = 10 μA
Reverse current	I <sub>R</sub>	—	—	50.0	nA	V <sub>R</sub> = 9 V
Capacitance	C <sub>2</sub>	43.0	—	48.1	pF	V <sub>R</sub> = 2 V, f = 1 MHz
	C <sub>8</sub>	24.6	—	29.2		V <sub>R</sub> = 8 V, f = 1 MHz
Capacitance ratio	n	1.65	—	1.75	—	C <sub>2</sub> /C <sub>8</sub>
Figure of merit	Q	75.0	—	—	—	V <sub>R</sub> = 2 V, f = 100 MHz

Note: Per one device.

### Main Characteristic

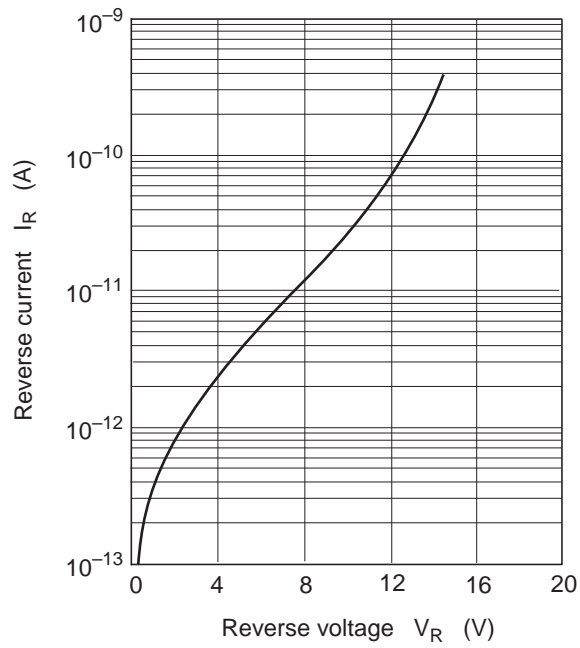


Fig.1 Reverse current vs. Reverse voltage

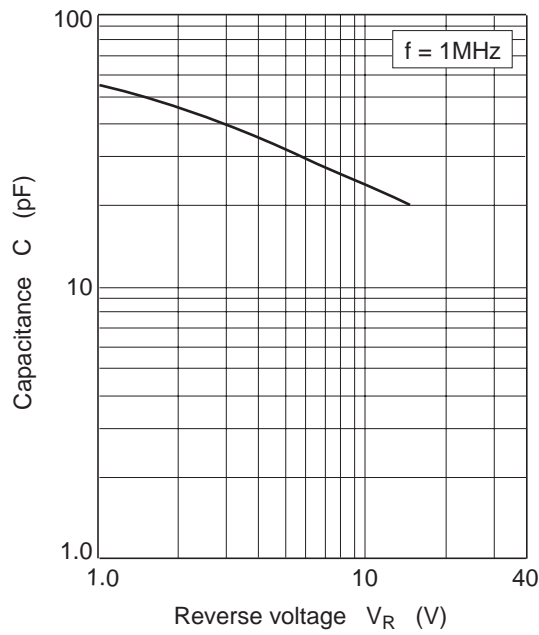
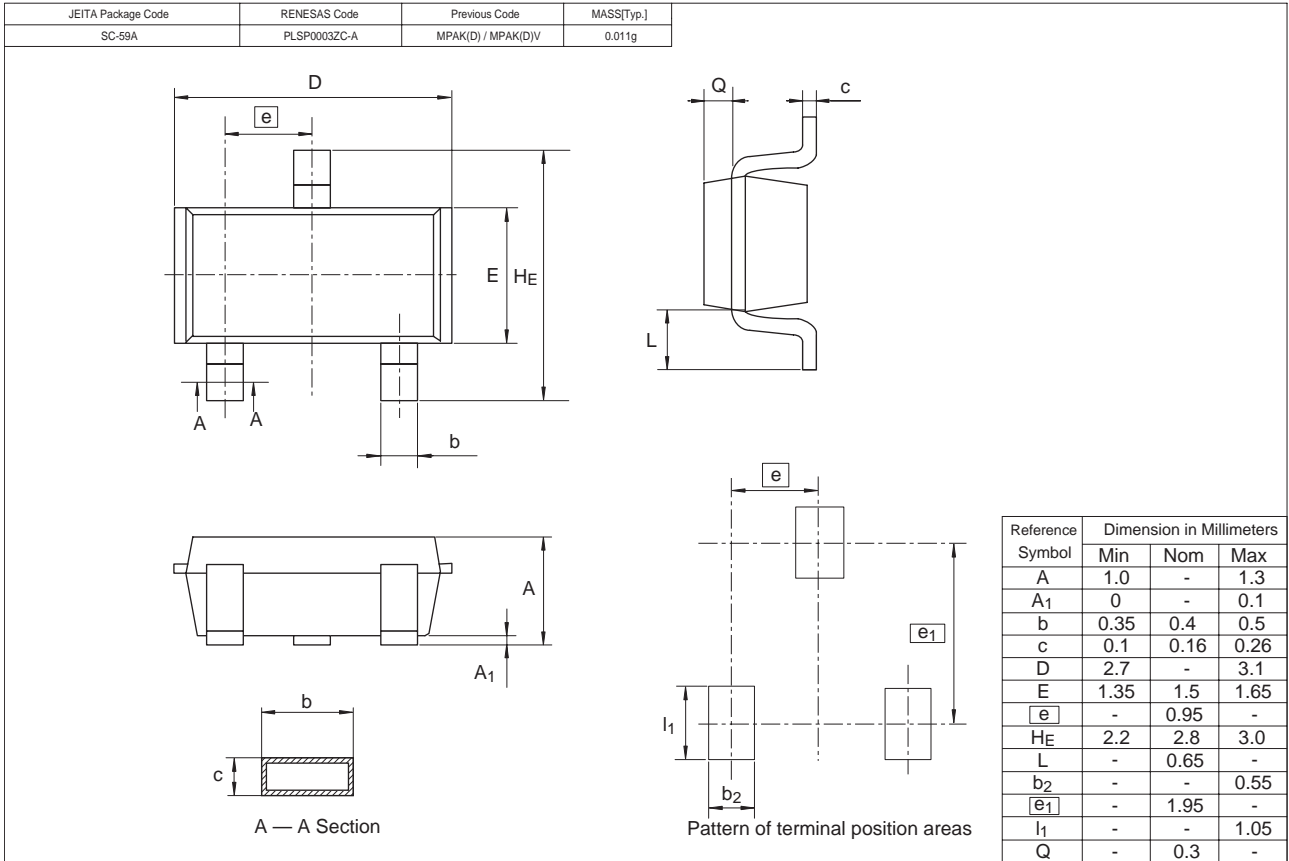


Fig.2 Capacitance vs. Reverse voltage

### Package Dimensions



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To our customers,

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April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

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