

HVM16

Variable Capacitance Diode for FM tuner

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

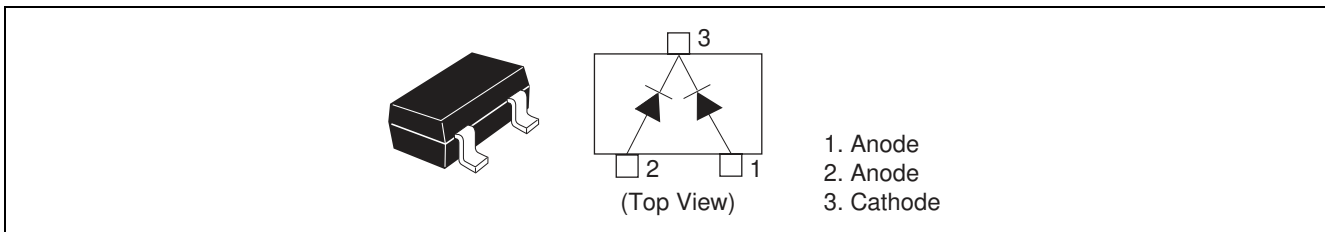
Features

- 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 _R	14	V
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

Electrical Characteristics *

(Ta = 25°C)

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

Note: Per one device.

Main Characteristic

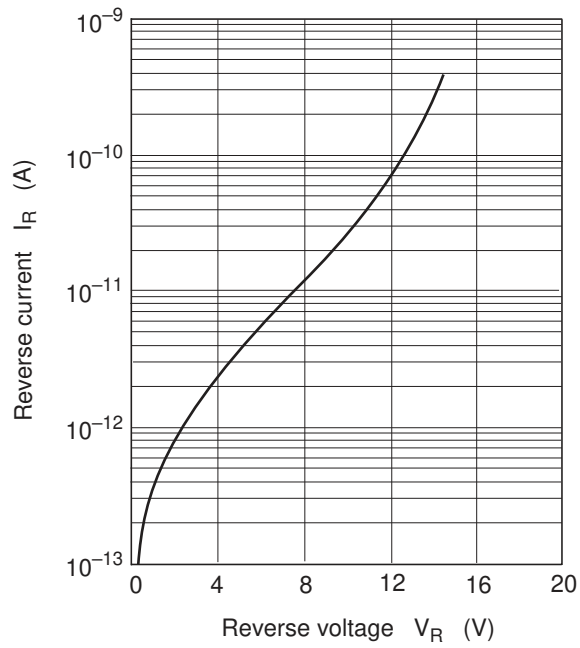


Fig.1 Reverse current vs. Reverse voltage

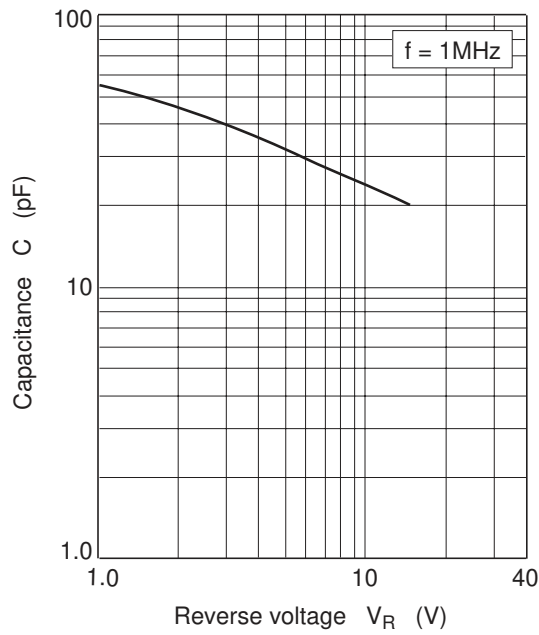
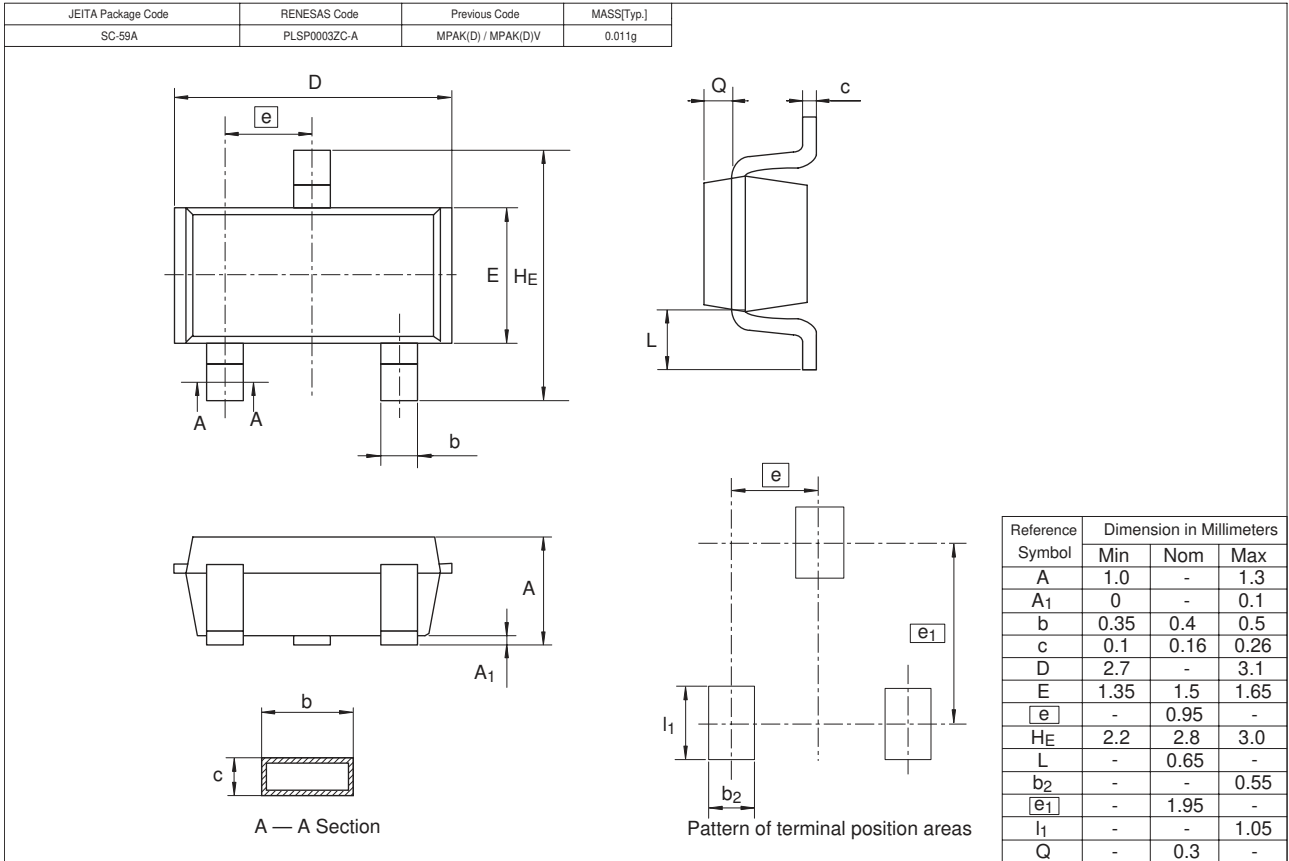


Fig.2 Capacitance vs. Reverse voltage

Package Dimensions



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Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

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Tel: <852> 2265-6688, Fax: <852> 2730-6071

Renesas Technology Taiwan Co., Ltd.

10th Floor, No.99, Fushing North Road, Taipei, Taiwan
Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology (Shanghai) Co., Ltd.

Unit2607 Ruijing Building, No.205 Maoming Road (S), Shanghai 200020, China
Tel: <86> (21) 6472-1001, Fax: <86> (21) 6415-2952

Renesas Technology Singapore Pte. Ltd.

1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632
Tel: <65> 6213-0200, Fax: <65> 6278-8001

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April 1st, 2010
Renesas Electronics Corporation

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