RENESAS

HSM276SR

Silicon Schottky Barrier Diode for Detector and Mixer

REJ03G0139-0500Z (Previous: ADE-208-040D) Rev.5.00 Nov.10.2003

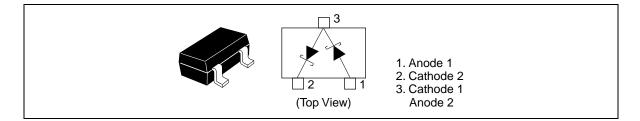
Features

- High forward current, Low capacitance.
- HSM276SR which is interconnected in series configuration is designed for balanced mixer use.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM276SR	C9	МРАК

Pin Arrangement





HSM276SR

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Symbol	Value	Unit	
V _R	3	V	
l ₀ * ¹	30	mA	
Tj	125	°C	
Tstg	-55 to +125	°C	
	V _R Io* ¹ Tj	V _R 3 Io*1 30 Tj 125	V _R 3 V Io*1 30 mA Tj 125 °C

Note: 1. Per one device

Electrical Characteristics *1

 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse voltage	V _R	3	_		V	I _R = 1 mA
Reverse current	I _R		_	50	μΑ	V _R = 0.5 V
Forward current	١ _F	35	_	_	mA	$V_F = 0.5 V$
Capacitance	С	_	_	0.9	pF	$V_{R} = 0.5 V, f = 1 MHz$
Capacitance deviation	ΔC	_	_	0.1	pF	$V_{R} = 0.5 V, f = 1 MHz$
ESD-Capability *2	_	30	_	_	V	C = 200 pF, R = 0 Ω , Both forward and reverse direction 1 pulse.

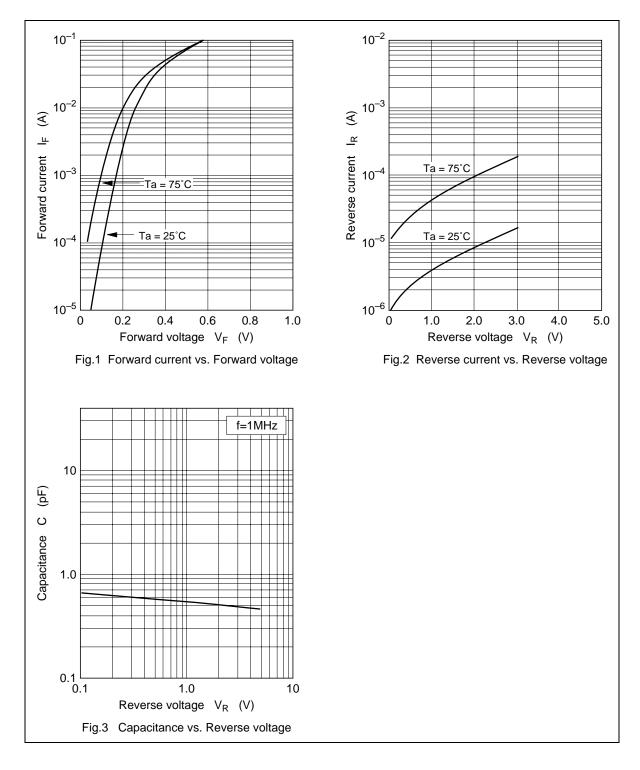
Notes: 1. Per one device

2. Failure Criterion; $I_R \geq 100~\mu A$ at V_R = 0.5 V



HSM276SR

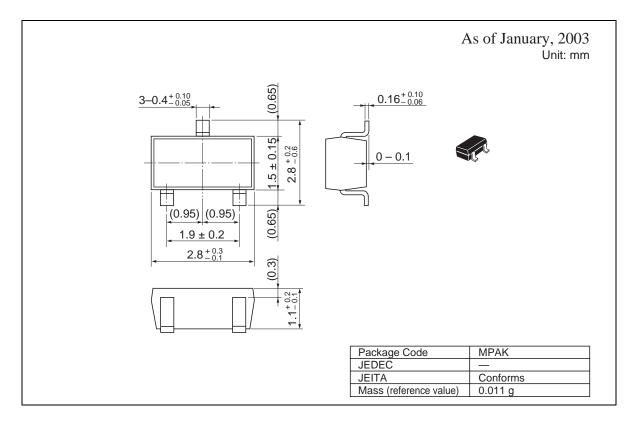
Main Characteristics





HSM276SR

Package Dimensions





RenesasTechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

Keep safety first in your circuit designs!

- The party inst in your circuit designs:
 1. Renesas Technology Corp. puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage.
 Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or (iii) prevention against any malfunction or mishap.

- Notes regarding these materials are intended as a reference to assist our customers in the selection of the Renesas Technology Corp. product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Renesas Technology Corp. or a third party.
 Renesas Technology Corp. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.
 All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Renesas Technology Corp. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Renesas Technology Corp. or an authorized Renesas Technology Corp. product distributor for the latest product information described here may contain technical inaccuracies or typographical errors. Renesas Technology Corp. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information contained in these materials, including product data, diagrams, charts, programs, and algorithms, please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Renesas Technology Corp. assumes no responsibility for any damage or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact Renesas Technology Corp. or an authorized Renesas Technology Corp. product.
 4. When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, please be sure to eva use.
- use. 6. The prior written approval of Renesas Technology Corp. is necessary to reprint or reproduce in whole or in part these materials. 7. If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited. 8. Please contact Renesas Technology Corp. for further details on these materials or the products contained therein.



http://www.renesas.com

RENESAS SALES OFFICES

Renesas Technology America, Inc. 450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500 Fax: <1> (408) 382-7501

Renesas Technology Europe Limited.

Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, United Kingdom Tel: <44> (1628) 585 100, Fax: <44> (1628) 585 900

Renesas Technology Europe GmbH Dornacher Str. 3, D-85622 Feldkirchen, Germany Tel: <49> (89) 380 70 0, Fax: <49> (89) 929 30 11

Renesas Technology Hong Kong Ltd. 7/F., North Tower, World Finance Centre, Harbour City, Canton Road, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2375-6836

Renesas Technology Taiwan Co., Ltd. FL 10, #99, Fu-Hsing N. Rd., Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology (Shanghai) Co., Ltd. 26/F., Ruijin 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