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Silicon Schottky Barrier Diode for Balanced Mixer

RENESAS

ADE-208-840(Z)

Rev. 0 Feb. 2000

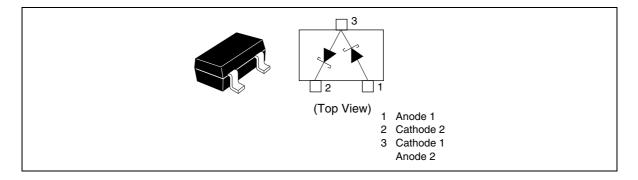
Features

- High forward current, Low capacitance.
- HSM276ASR 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

Туре No.	Laser Mark	Package Code
HSM276ASR	S20	МРАК

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RRM}	5	V
Reverse voltage	V _R	3	V
Average rectified current	l _o *	30	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	٥C

Note: Per one device

Electrical Characteristics *2

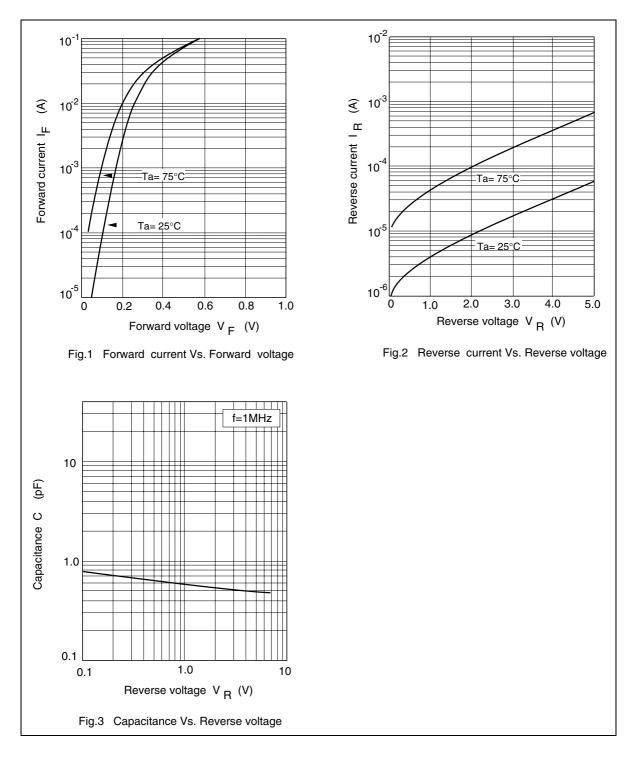
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse voltage	V _R	3.0	_	—	V	I _R = 1 mA
Reverse current	I _R	_	_	50	μA	V _R = 0.5V
Forward current	I _F	35	_	_	mA	$V_{F} = 0.5V$
Capacitance	С	—	_	0.90	рF	$V_{_{\rm R}} = 0.5V, f = 1 \text{ MHz}$
Capacitance deviation	ΔC	_	_	0.10	pF	$V_{_{\rm R}} = 0.5V, f = 1 \text{ MHz}$
ESD-Capability ^{*1}	_	30	_		V	C=200pF, R= 0Ω
						Both forward and reverse direction 1pulse.

Notes: 1. Failure criterion ; $I_{_{\rm R}} \ge 100 \mu A$ at $V_{_{\rm R}} = 0.5 V$

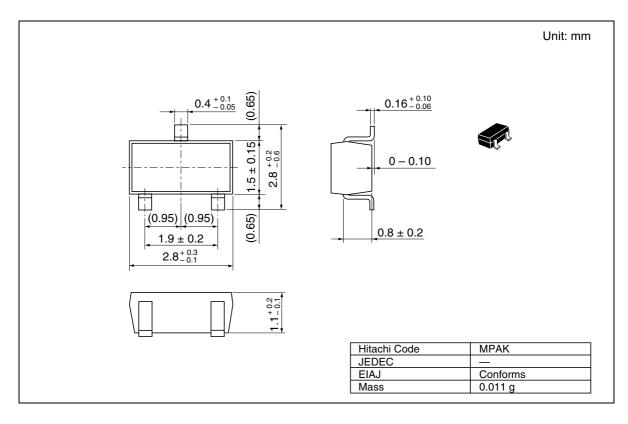
2. Per one device

Main Characteristic



RENESAS

Package Dimensions





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