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semiconductors may lead to personal injury, fire or property damage.
Remember to give due consideration to safety when making your circuit designs, with appropriate
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HSM123

Silicon Epitaxial Planar Diode for High Speed Switching



ADE-208-027F (Z)

Rev.6 Nov. 2002

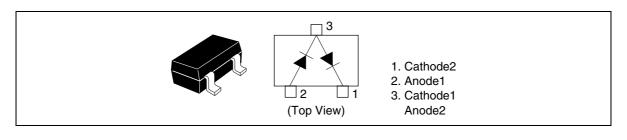
Features

- Low capacitance, proof against high voltage.
- Fast recovery time.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM123	A9	MPAK

Pin Arrangement



HSM123

Absolute Maximum Ratings *1

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

Item	Symbol	Value	Unit	
Peak reverse voltage	$V_{_{RM}}$	85	V	
Reverse voltage	$V_{_{\mathrm{R}}}$	80	V	_
Peak forward current	I _{FM}	300	mA	
Non-Repetitive peak forward surge current	*2	4	Α	
Average forward current	I _o	100	mA	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Notes: 1. Per one device.

2. Within 1 μs forward surge current.

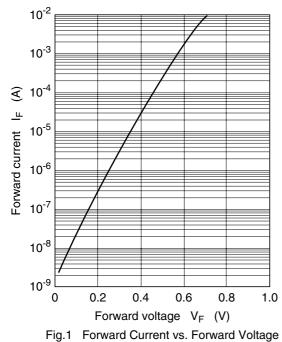
Electrical Characteristics *

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}		0.70	1.0	V	I _F = 10 mA
	V _{F2}		0.79	1.0	_	I _F = 50 mA
	V _{F3}		0.85	1.2	_	I _F = 100 mA
Reverse current	I _R		_	0.1	μΑ	V _R = 80 V
Capacitance	С	_	1.0	4.0	pF	V _R = 0 V, f = 1 MHz
Reverse recovery time	t _{rr}	_	_	3.0	ns	$I_{\rm F} = 10 \text{ mA}, V_{\rm R} = 6 \text{ V}, R_{\rm L} = 50 \Omega$

Note: Per one device.

Main Characteristic



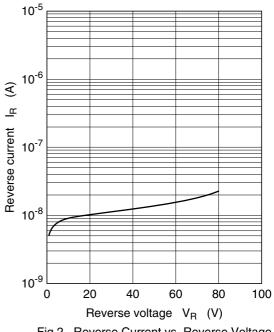
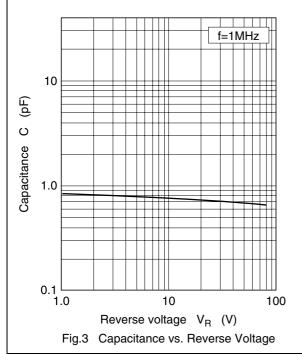
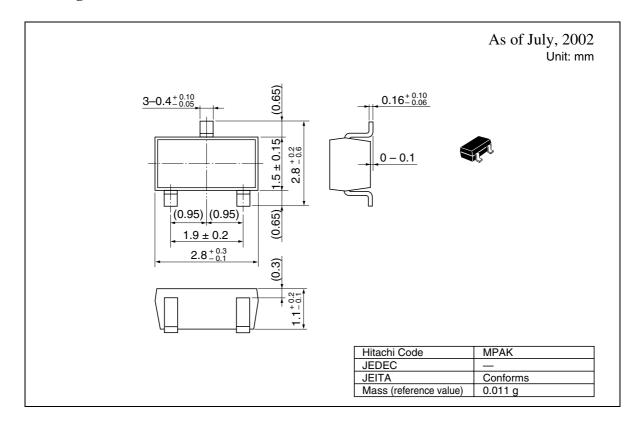


Fig.2 Reverse Current vs. Reverse Voltage



HSM123

Package Dimensions



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