HSM107S

Silicon Schottky Barrier Diode for System Protection

HITACHI

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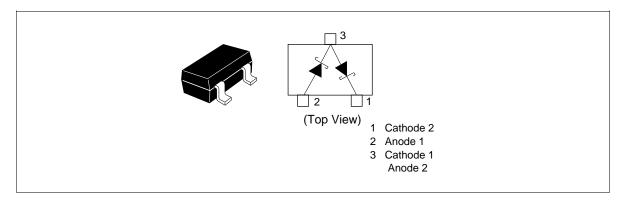
Features

- Low V_F and high efficiency.
- HSM107S which is interconnected in series configuration is designed for protection from not only external excessive voltage but also miss-operation on electric systems.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM107S	C5	MPAK

Outline





HSM107S

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

Item	Symbol	Value	Unit	
Reverse voltage	V_R	8	V	
Peak forward current	I _{FM}	0.1	А	
Non-Repetitive Peak forward surge current	I _{FSM} *1	0.5	Α	
Average forward current	Io	50	mA	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Notes: 1. Square wave, 10ms

Electrical Characteristics (Ta = 25^{\circ}C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse voltage	V_R	8	_	_	_	I _R = 1.0 mA
Reverse current	I _R	_	_	30	μΑ	$V_R = 5 V$
Forward voltage	V_{F}	_	_	0.3	V	I _F = 10 mA
ESD Capability *1	_	100	_	_	V	C=200pF, Both forward and reverse direction 1 pulse

Notes: 1. Failure Criterion ; $I_R \ge 60\mu A$ at $V_R = 5V$

Main Characteristic

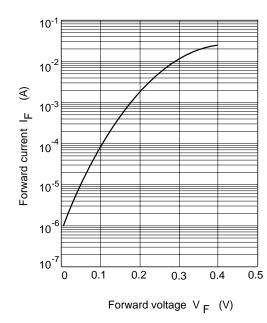


Fig.1 Forward current Vs. Forward voltage

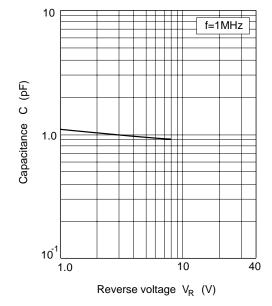


Fig.3 Capacitance Vs. Reverse voltage

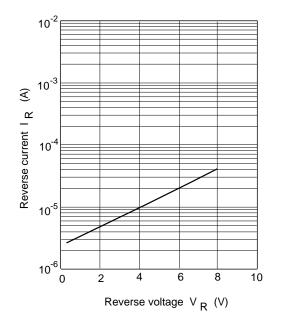
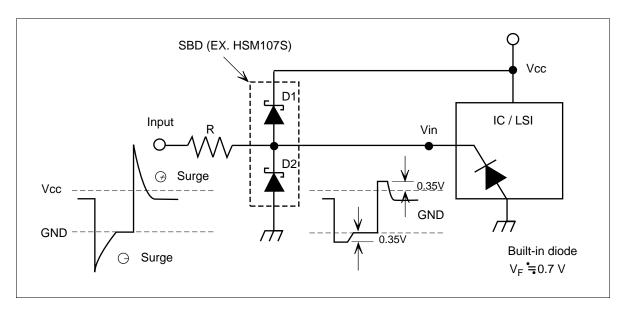


Fig.2 Reverse current Vs. Reverse voltage

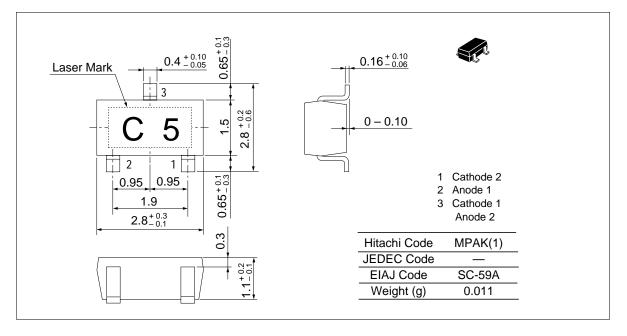
HSM107S

Example of application circuite



Package Dimensions

Unit: mm



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