

HSM221C

Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G0552-0600 Rev.6.00 Dec 12, 2008

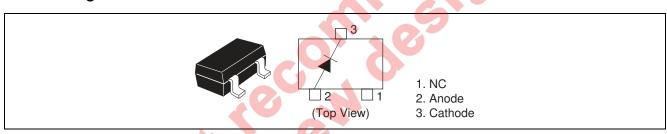
Features

- Low capacitance, proof against high voltage.
- Fast recovery time. (trr = 3.0ns max)
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

				Taping Abbreviation
Part No	Laser Mark	Package Name	Package Code	(Quantity)
HSM221CTL	A2	MPAK	PLSP0003ZC-A	TL (3,000 pcs / reel)
HSM221CTR	A2	MPAK	PLSP0003ZC-A	TR (3,000 pcs / reel)

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	85	V
Reverse voltage	V_R	80	V
Peak forward current	I _{FM}	300	mA
Non-Repetitive peak forward surge current	I _{FSM} *1	4	Α
Average rectified current	lo	100	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

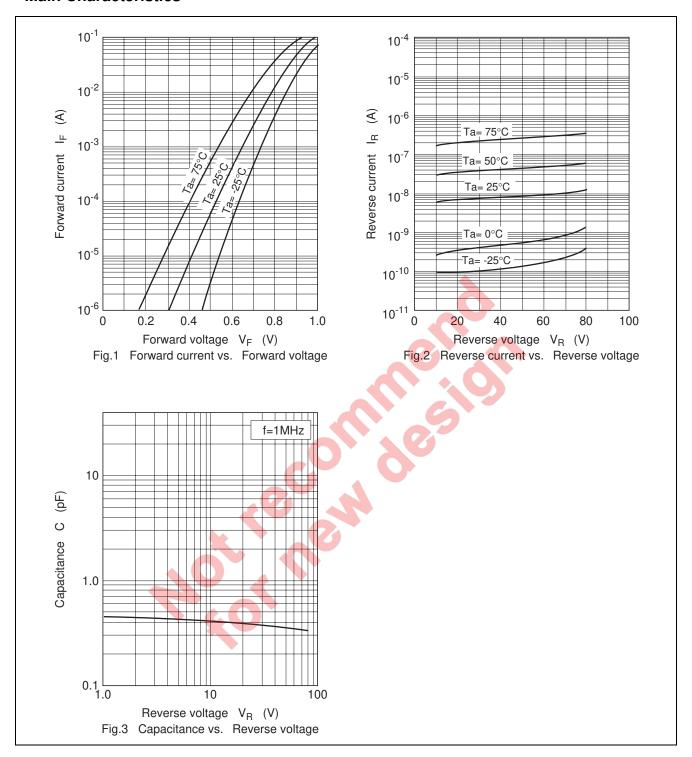
Note: 1. Value at duration of 1 μ s.

Electrical Characteristics

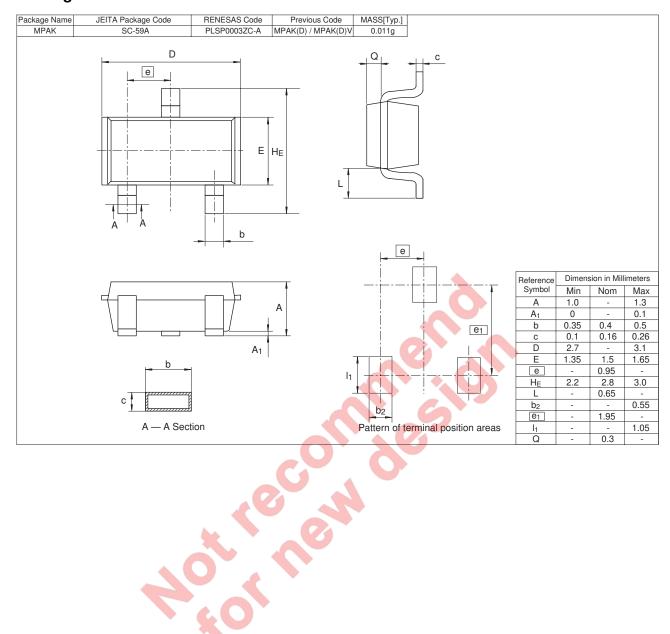
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	0.76	1.0	V	I _F = 10 mA
	V _F	_	0.88	1.0	V	I _F = 50 mA
	V _F	_	0.97	1.2	V	$I_F = 100 \text{ mA}$
Reverse current	I _R	_	_	0.1	μΑ	V _R =80 V
Capacitance	С	_	0.5	2.0	pF	V _R = 0 V, f = 1 MHz
Reverse recovery time	t _{rr}	_	_	3.0	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 50 \Omega$

Main Characteristics



Package Dimensions



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