HSC119

Silicon Epitaxial Planar Diode for High Speed Switching

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ADE-208-615 (Z) Rev 0 Apr. 1998

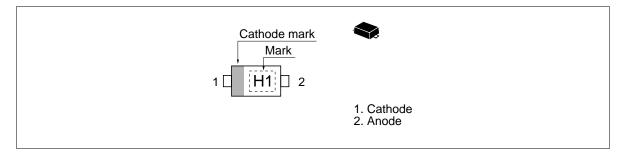
Features

- Low capacitance. (C=2.0pF max)
- Short reverse recovery time. $(t_{rr} = 3.0 \text{ ns max})$
- <u>U</u>ltra small <u>F</u>lat <u>P</u>ackage (UFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HSC119	H1	UFP

Outline





HSC119

Absolute Maximum Ratings (Ta = 25° C)

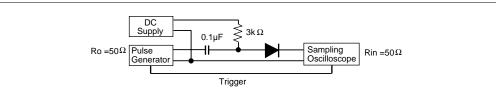
Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	85	V
Reverse voltage	V _R	80	V
Average forward current	I _o	100	mA
Peak rectified current	I _{FM}	300	mA
Non-Repetitive peak forward surge current	I _{FSM} ^{*1}	4	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	٥C

Note 1. Within 1µs forward surge current.

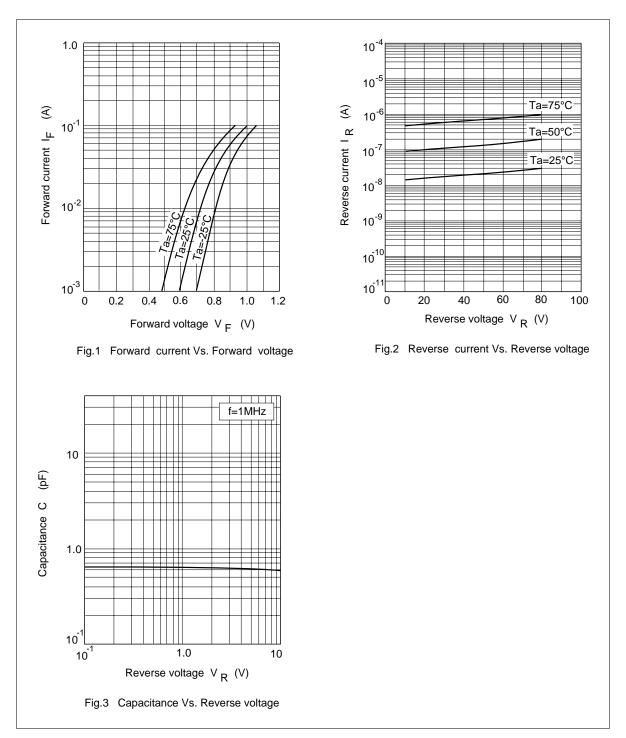
Electrical Characteristics (Ta = 25° C)

Item	Symbol	Min	Тур	Мах	Unit	Test Condition
Forward voltage	V_{F1}	_	_	0.8	V	$I_F = 10 \text{ mA}$
	V _{F2}	—	—	1.2		I _F = 100 mA
Reverse current	I _R		—	0.1	μA	V _R = 80V
Capacitance	С		—	2.0	pF	$V_{R} = 0V$, f = 1 MHz
Reverse recovery time ^{*1}	t _{rr}	—	—	3.0	ns	$I_{\rm F}$ = 10 mA, $V_{\rm R}$ = 6V R _L =50 Ω

Notes 1. Reverse recovery time test circuit



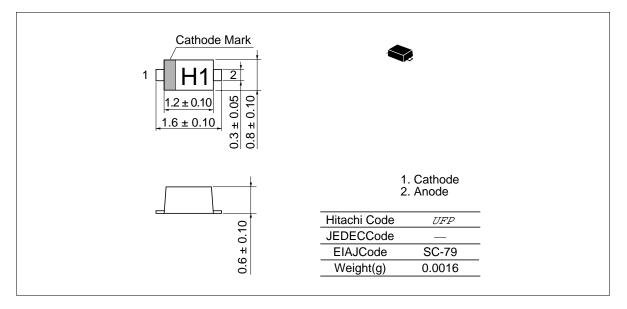
Main Characteristic



HSC119

Package Dimensions

Unit : mm



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