1SS119

Silicon Epitaxial Planar Diode for High Speed Switching

HITACHI

ADE-208-180B (Z)

Rev.2 Sep. 2000

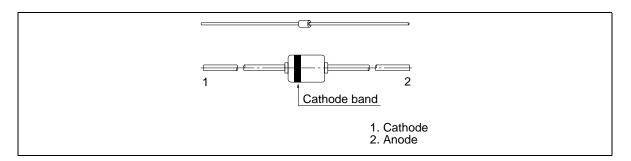
Features

- Low capacitance. (C = 3.0 pF max)
- Short reverse recovery time. ($t_{rr} = 3.5 \text{ ns max}$)
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

Туре No.	Cathode band	Package Code
1SS119	Light Blue	MHD

Outline





1SS119

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Peak reverse voltage	V _{RM}	35	V	
Reverse voltage	V _R	30	V	
Average rectified current	I _o	150	mA	
Peak forward current	I FM	450	mA	
Non-Repetitive peak forward surge current	I _{FSM} *	1	А	
Power dissipation	Pd	250	mW	
Junction temperature	Tj	175	°C	
Storage temperature	Tstg	-65 to +175	°C	

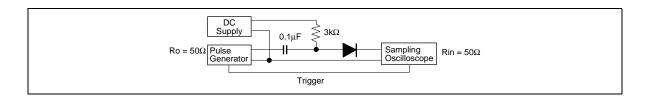
Note: Within 1s forward surge current.

Electrical Characteristics

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

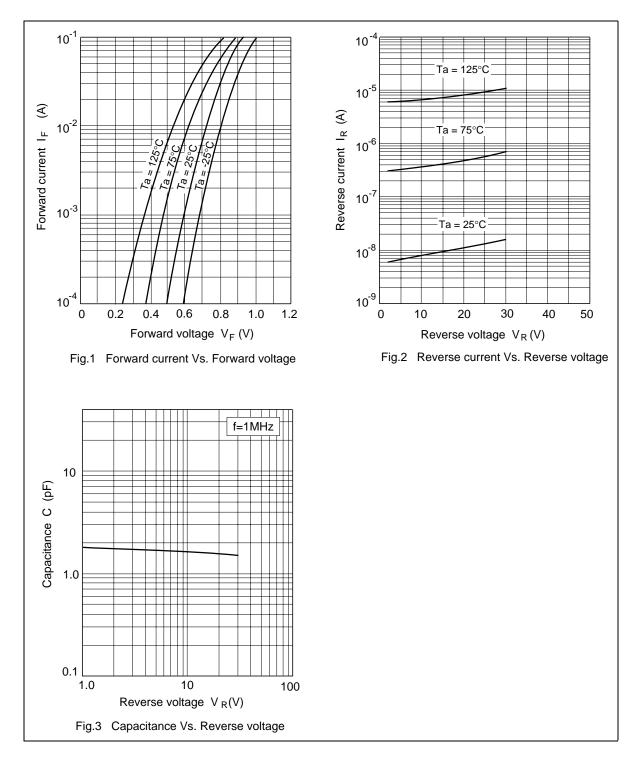
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F		_	0.8	V	I _F = 10 mA
Reverse current	I _R		_	0.1	μA	V _R = 30 V
Capacitance	С		_	3.0	pF	$V_{R} = 1 V, f = 1 MHz$
Reverse recovery time	t _{rr} *			3.5	ns	$I_{_{\rm F}}$ = 10 mA, $V_{_{\rm R}}$ = 6 V, $R_{_{\rm L}}$ = 50 Ω

Note: Reverse recovery time test circuit



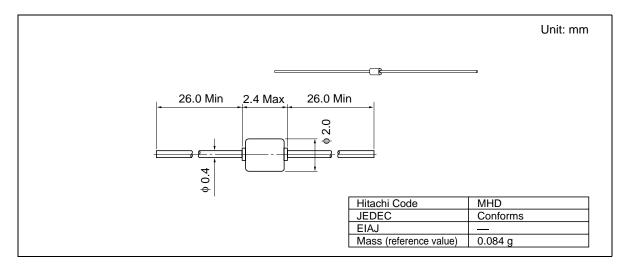
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Main Characteristic



<u>1SS1</u>19

Package Dimensions



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