
HSS104

Silicon Epitaxial Planar Diode for High Speed Switching

HITACHI

ADE-208-178B (Z)

Rev.2
Oct. 2000

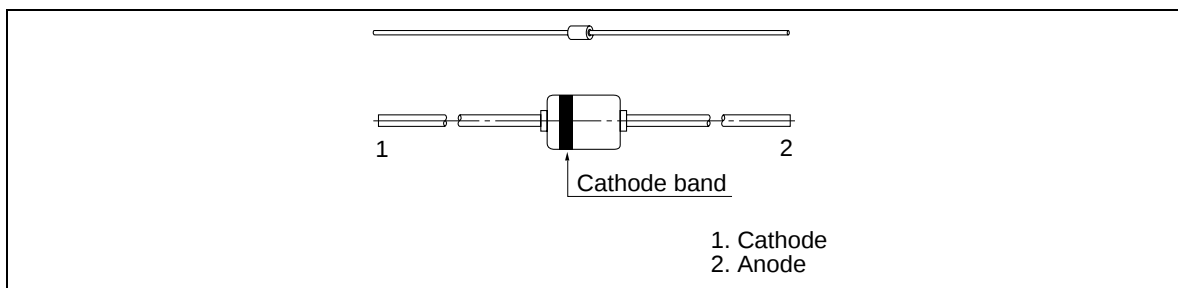
Features

- Short reverse recovery time and forward recovery time.
- Suitable for 5 mm pitch high speed automatic insertion.
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

Type No.	Cathode band	Package Code
HSS104	Blue	MHD

Outline



HSS104

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Peak reverse voltage	V_{RM}	40	V
Reverse voltage	V_R	35	V
Average rectified current	I_O	110	mA
Peak forward current	I_{FM}	300	mA
Non-Repetitive peak forward surge current	I_{FSM}^*	0.4	A
Power dissipation	Pd	300	mW
Junction temperature	Tj	175	°C
Storage temperature	Tstg	-65 to +175	°C

Note: Within 1s forward surge current.

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_F	—	—	1.2	V	$I_F = 100 \text{ mA}$
Reverse current	I_R	—	—	0.5	μA	$V_R = 35 \text{ V}$
Capacitance	C	—	—	3.0	pF	$V_R = 0.5 \text{ V}$, $f = 1 \text{ MHz}$
Reverse recovery time	t_{rr}	—	—	3.0	ns	$I_F = 10 \text{ mA}$, $V_R = 6 \text{ V}$, $R_L = 50 \Omega$

Main Characteristic

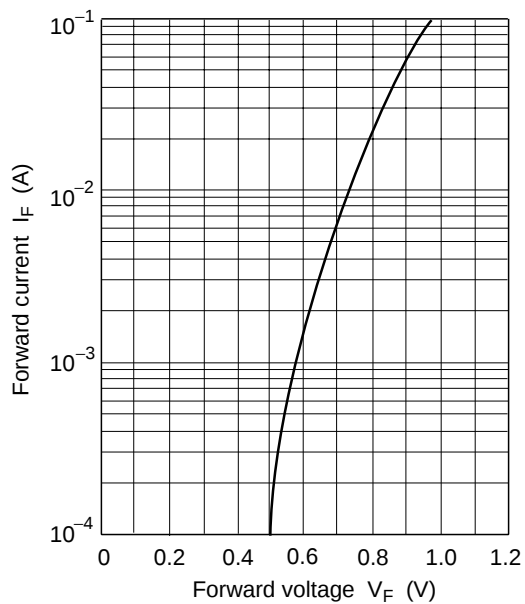


Fig.1 Forward current Vs. Forward voltage

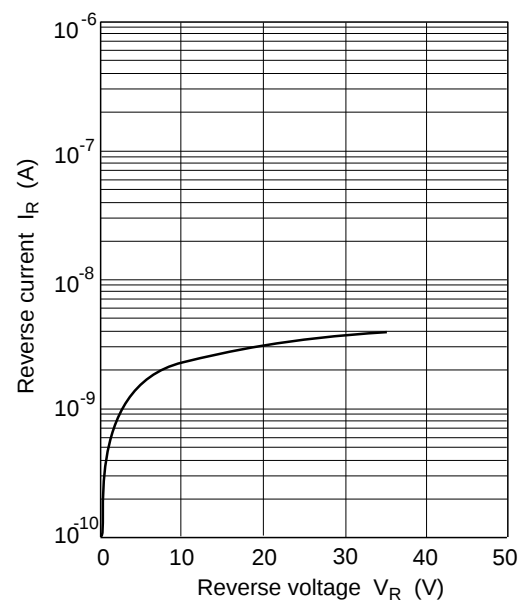


Fig.2 Reverse current Vs. Reverse voltage

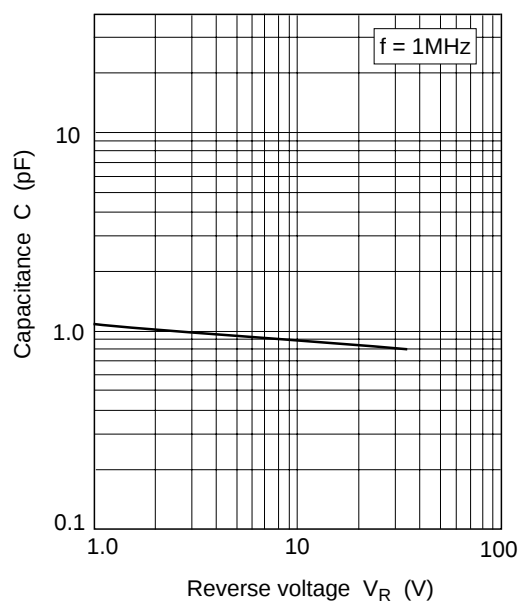
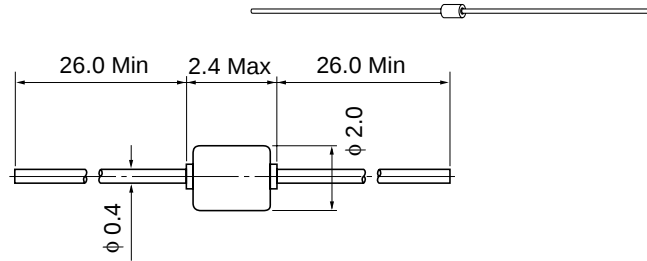


Fig.3 Capacitance Vs. Reverse voltage

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Package Dimensions

Unit: mm



Hitachi Code	MHD
JEDEC	Conforms
EIAJ	—
Mass (reference value)	0.084 g

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