

HSS4148

Silicon Epitaxial Planar Diode for Various Detector, Modulator, Demodulator

> REJ03G0404-0100 Rev.1.00 Sep 17, 2004

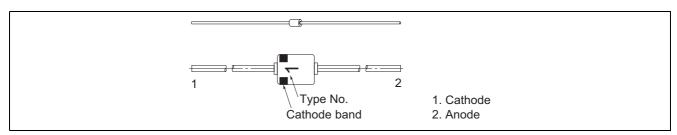
Features

- Low capacitance. (C = 4.0 pF max)
- Short reverse recovery time. $(t_{rr} = 4.0 \text{ ns max})$
- Suitable for 5mm-pitch high speed automatic insertion.

Ordering Information

Type No.	Cathode band	Mark	Package Code
HSS4148	Black	1	MHD

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Peak reverse voltage	V _{R M}	100	V
Reverse voltage	V _R	75	V
Average rectified current	lo	150	mA
Peak forward surge current	I _{FM}	450	mA
Non-Repetitive peak forward surge current	I _{FSM} * ¹	1	Α
Junction temperature	Tj	175	°C
Storage temperature	Tstg	-65 to +175	°C

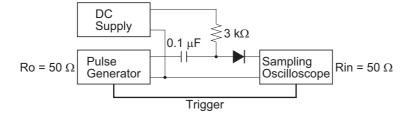
Note: 1. Forward Surge within one second duration

Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	_	1.0	V	I _F = 10 mA
Reverse current	I _R	_	_	25	nA	V _R = 20 V
Capacitance	С	_	_	4.0	pF	V _R = 0 V, f = 1 MHz
Reverse recovery time	t _{rr} *1	_	_	4.0	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, Irr = 1 \text{ mA},$
						$R_L = 100 \Omega$

Note: 1. Reverse recovery time test circuit



Thermal Characteristics

Item	Тур	Unit
Rth(j-a)	(300) * ¹	°C/W

Note: 1. Reference only.

Main Characteristic

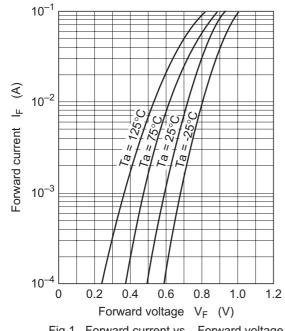


Fig.1 Forward current vs. Forward voltage

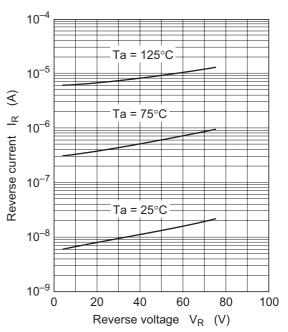
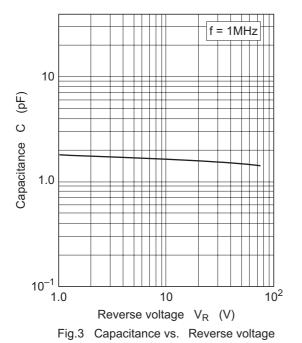
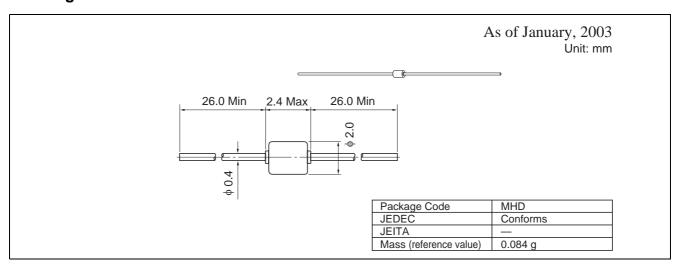


Fig.2 Reverse current vs. Reverse voltage



Package Dimensions



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