

Descriptions

This is Silicon Diode in a SOT-23 Plastic Package.

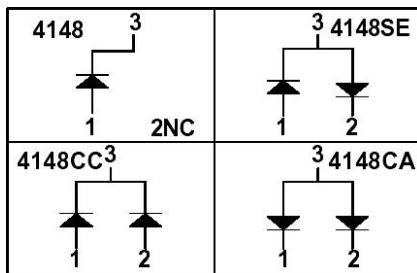
Features

- Fast Switching,
- High Conductance.
- HF Product.

Applications

Small signal diode.

Equivalent Circuit



Pinning



PIN: See Equivalent Circuit.

Marking

Type	MMBD4148	MMBD4148SE	MMBD4148CC	MMBD4148CA
Marking	H5H	HD4	HD5	HD6

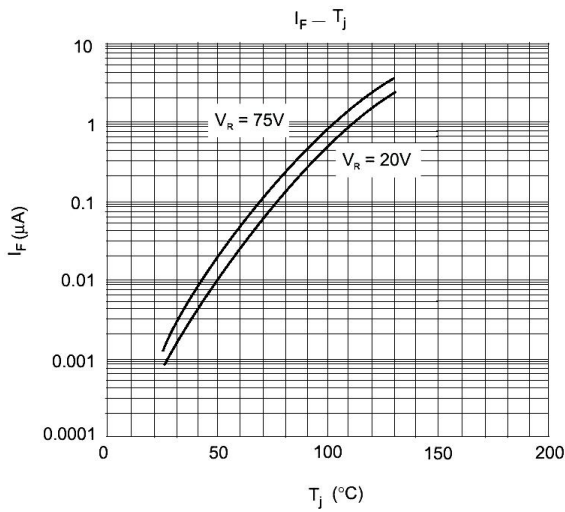
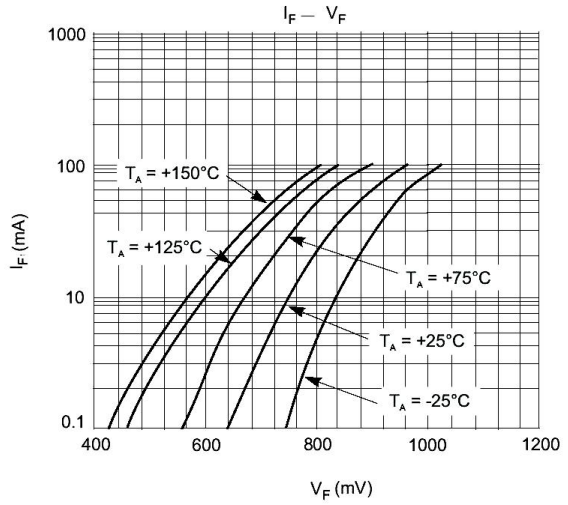
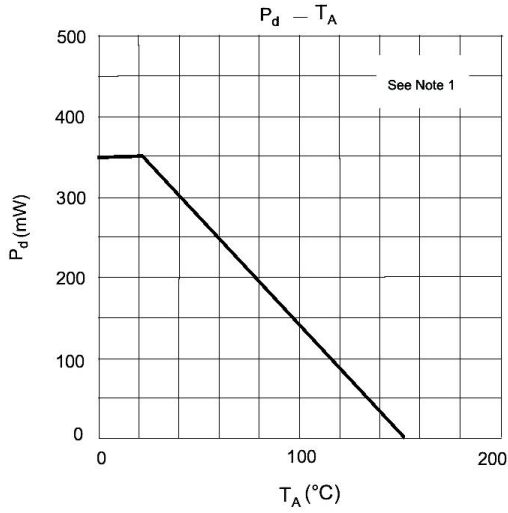
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}(PW=1.0S)$	1.0	A
Non-repetitive Peak Forward Surge Current	$I_{FSM}(PW=1.0\mu S)$	2.0	A
Power Dissipation	PC	350	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

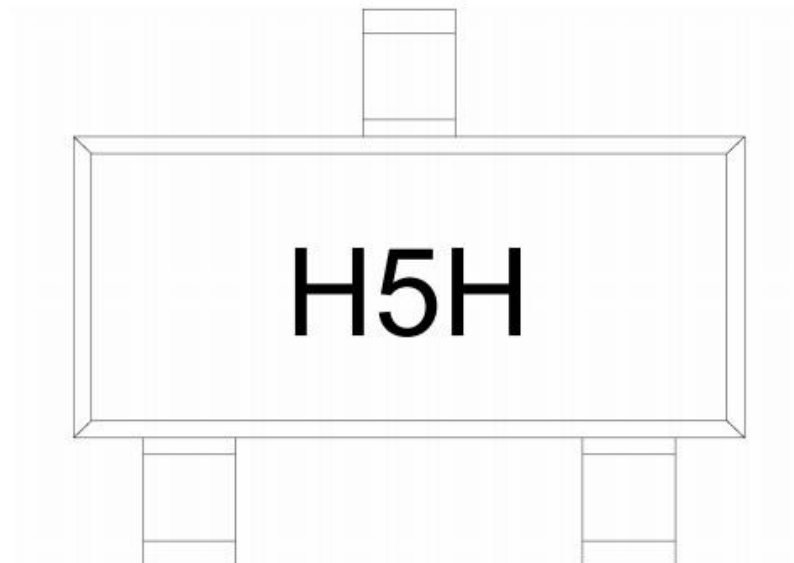
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_R	$I_R=5.0\mu A$	75			V
		$I_R=100\mu A$	100			V
Forward Voltage	V_F	$I_F=10mA$			1.0	V
Instantaneous Reverse Current	I_R	$V_R=20V$			25	nA
		$V_R=20V$ $T_A=150^\circ C$			50	μA
		$V_R=75V$			5.0	μA
Total Capacitance	C_T	$V_R=0$ $f=1.0MHz$			4.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10mA$ $V_R=6.0V$ $I_{RR}=1.0mA$ $R_L=100\Omega$			4.0	ns

Electrical Characteristic Curve



Marking Instructions



Note:

H: Company Code.

5H: Product Type.

Packaging SPEC

REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	8	240,000	7" ×8	180×120×180	385×257×392

Package Outline Dimensions

SOT-23

单位: mm

