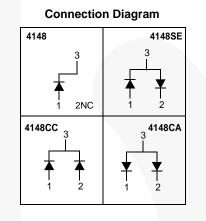




## MMBD4148 / MMBD4148SE / MMBD4148CC / MMBD4148CA Small Signal Diode





### **Ordering Information**

Part Number	Top Mark	Package	Packing Method
MMBD4148	5H	SOT-23 3L	Tape and Reel
MMBD4148_D87Z	5H	SOT-23 3L	Tape and Reel
MMBD4148SE	D4	SOT-23 3L	Tape and Reel
MMBD4148CC	D5	SOT-23 3L	Tape and Reel
MMBD4148CA	D6	SOT-23 3L	Tape and Reel

### **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

Symbol	Parameter		Value	Unit
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage		100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current		200	mA
5014	Non-Repetitive reak rotward	Pulse Width = 1.0 second	1.0	Α
		Pulse Width = 1.0 microsecond	2.0	A
T <sub>STG</sub>	Storage Temperature Range		-55 to +150	°C
TJ	Operating Junction Temperature		150	°C

## **Thermal Characteristics**

Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

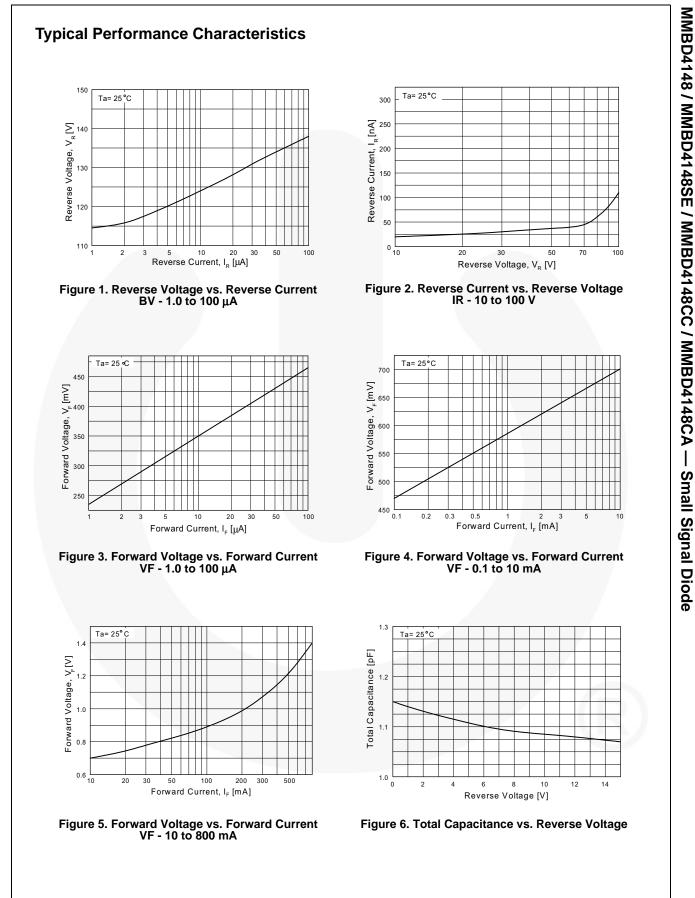
Symbol	Parameter	Value	Unit
PD	Power Dissipation	350	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction-to-Ambient	357	°C/W

## **Electrical Characteristics**

Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

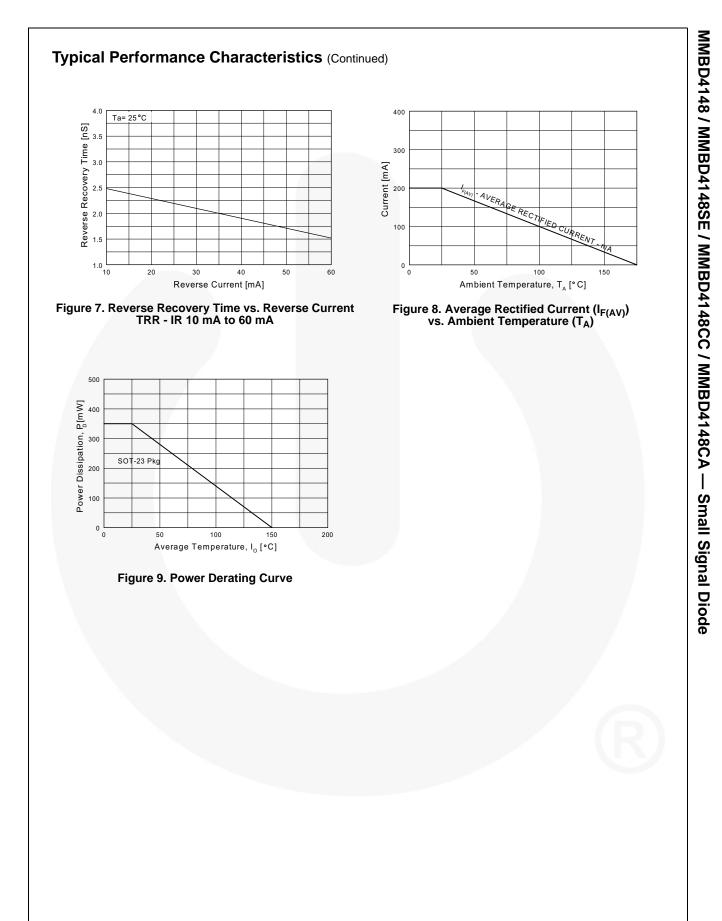
Symbol	Parameter	Conditions	Min.	Max.	Unit
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 5.0 μA	75		- V
		I <sub>R</sub> = 100 μA	100		
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 10 mA		1.0	V
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> = 20 V		25	nA
		V <sub>R</sub> = 20 V, T <sub>A</sub> = 150°C		50	μA
		V <sub>R</sub> = 75 V		5.0	μA
CT	Total Capacitance	V <sub>R</sub> = 0 V, f = 1.0 MHz		4.0	pF
t <sub>rr</sub>	Reverse Recovery Time	$I_F$ = 10 mA, V <sub>R</sub> = 6.0 V, $I_{RR}$ = 1.0 mA, R <sub>L</sub> = 100 Ω		4.0	ns

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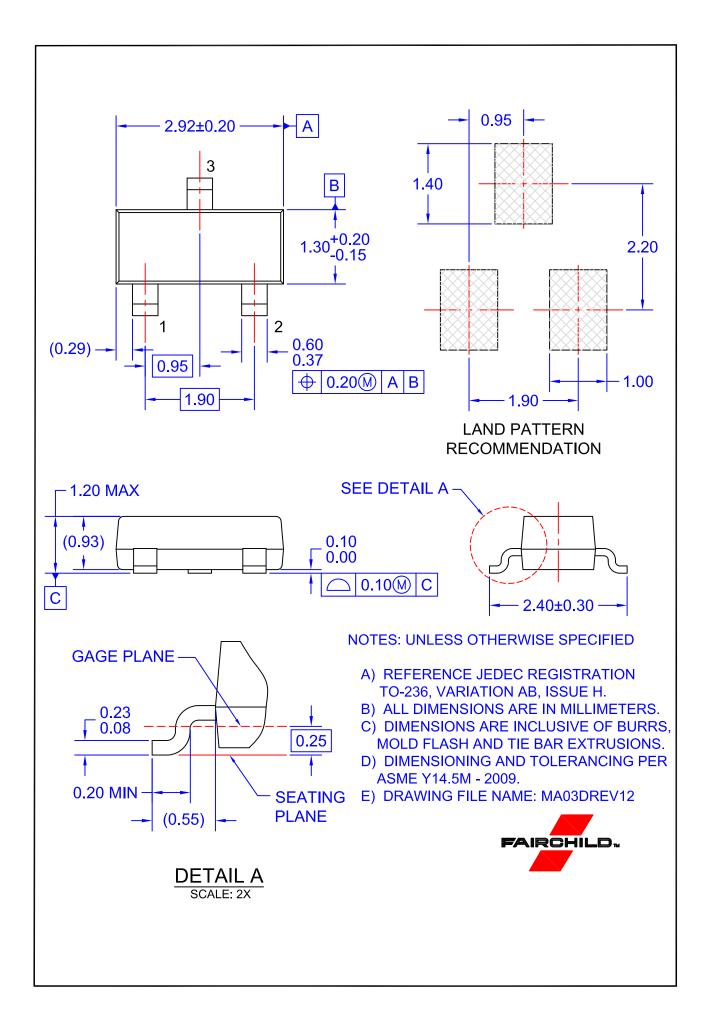


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No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.	
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