

Features

- Surface Mount Package Ideally Suited for Automatic Insertion
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

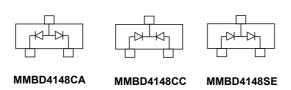
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking
MMBD4148CA	D6
MMBD4148CC	D5
MMBD4148SE	D4

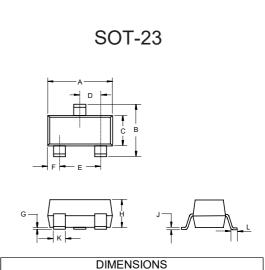
Parameter	Symbol	Value	
DC Reverse Voltage	V_R	100V	
Peak Repetitive Reverse Voltage	V_{RRM}	100V	
Working Peak Reverse Voltage	V_{RWM}	100V	
RMS Reverse Voltage	$V_{R(RMS)}$	71V	
DC Forward Current	I _{FM}	600mA	
Average Rectified Current	I _{F(AV)}	200mA	
Repetitive Peak Forward Current	I _{FRM}	700mA	
Peak Forward Surge Current(t=1s)	_	1A	
(t=1µs)	I _{FSM}	2A	
Power Dissipation	P_{D}	350mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Configuration - Top View

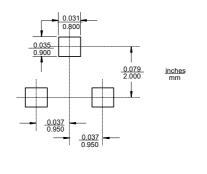


High Conductance Ultra Fast Diode 350mW



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



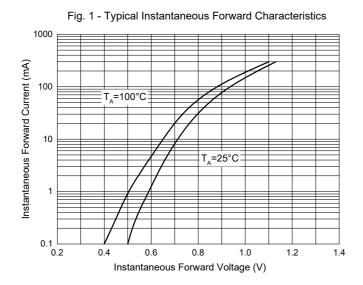


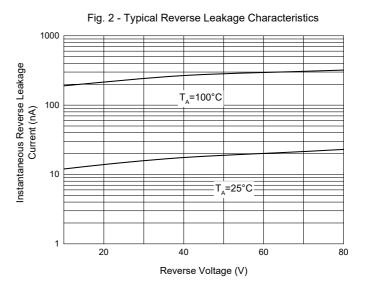
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

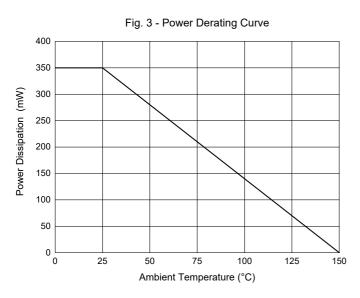
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage V _F	V	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
	V _F	I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current I _R		V _R =75V			1	μA
	V _R =20V			0.025	μA	
	V _R =75V, T _J =150°C			50	μA	
Junction Capacitance	Сл	V _R = 0V, f = 1MHz			2	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			4	ns



Curve Characteristics









Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel
Part Number-13P	Tape&Reel: 10Kpcs/Reel

For packaging details, go to our website at https://www.mccsemi.com/pdf/productpackaging/SOT-23%20Package.pdf

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