

Features

- Low Leakage Current
- · Fast Switching Speed
- · 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(Note2): 357°C/W Junction to Ambient

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
MMBD4148TU	75V	53V	75V

Maximum Ratings @ 25°C Unless Otherwise Specified

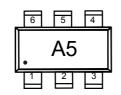
Average Forward Current (Triple)	I _F	80mA	T _A =25°C (Note 2)
Non-Repetitive Peak Forward Surge Current	I _{FSM}	1.5A 2A	@ t=8.3ms @ t=1ms
Power Dissipation	P _{TOT}	350mW	T _A =25°C

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

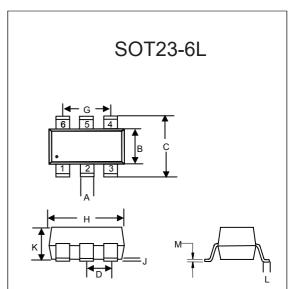
2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code





350mW 75Volt Small Signal Diode



DIMENSIONS					
DIM		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.012	0.020	0.30	0.50	
В	0.051	0.070	1.30	1.80	
С	0.087	0.126	2.20	3.20	
D	0.037		0.95		TYP.
G	0.074		1.90		TYP.
Н	0.106	0.122	2.70	3.10	
J	0.002	0.006	0.05	0.15	
K	0.030	0.051	0.75	1.30	
L	0.012	0.024	0.30	0.60	
М	0.003	0.008	80.0	0.22	

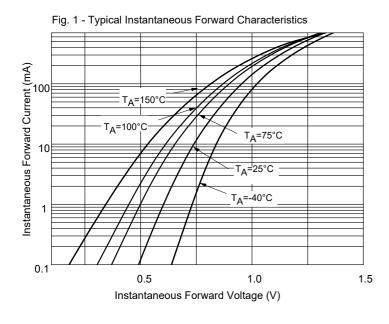


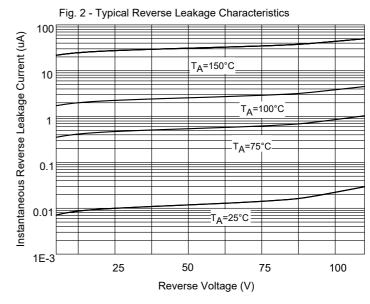
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

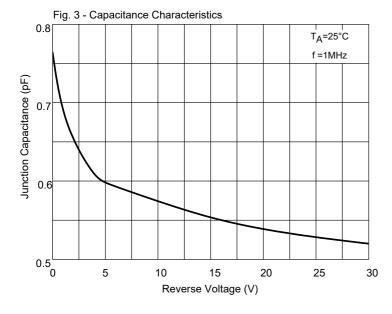
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	75			V
Forward Voltage	V _F	I _F =10mA			0.855	V
		I _F =100mA			1.2	V
Reverse Current	I _R	V _R =20V			25	nA
		V _R =70V			1	μA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			4	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=0.1\times I_R, R_L=100\Omega$			4	ns

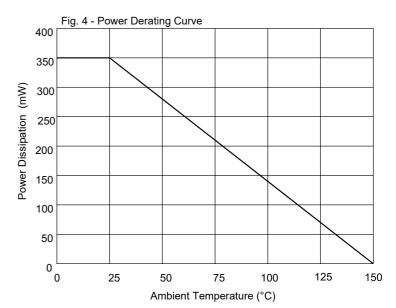


Curve Characteristics











Ordering Information

Device	Packing		
MMBD4148TU-TP	Tape&Reel: 3Kpcs/Reel		

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