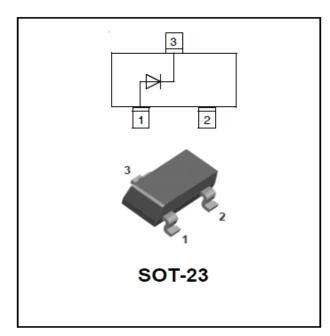




Switching Diode



Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Moisure Sensitivity Level 1
- High Conductance
- •Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

• Package: SOT-23

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Marking: KA2

■Maximum Rating, (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Reverse Voltage	V _R	V	100
Forward Continuous Current, Per Leg	I _F	mA	150
Non-Repetitive Peak Forward Surge Current@ t=1s,	I _{FSM}	Α	1
Power Dissipation	P _D	mW	350
Operation Junction Temperature	TJ	$^{\circ}\!\mathbb{C}$	-55 to +150
Storage Temperature	T _{STG}	$^{\circ}$	-55 to +150

■Ordering Information (Example)

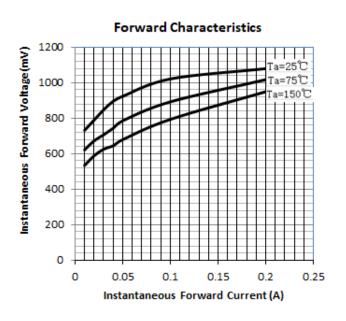
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBD4148	F2	Approximate 0.008	3000	30000	120000	7" reel

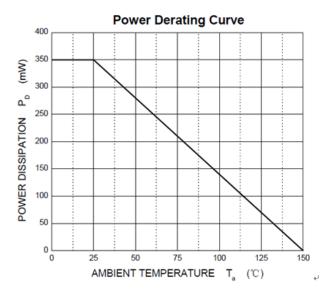


■Electrical Characteristics (T_a=25℃ Unless otherwise specified, Per Leg)

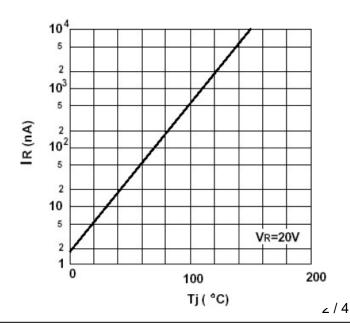
Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V_{R}	V	IR=100uA	100
Maximum Instantaneous Forward Voltage	V _F	V	I _{FM} =10mA, T _J =25℃	0.855
			I _{FM} =100mA, T _J =25℃	1.2
Maximum DC Reverse Current	I _R	nA	V _R =20V	25
		uA	V _R =75V	5
Typical Junction Capacitance	CJ	pF	f=1.0MHz, V _R =0V	4
Reverse Recovery Time	T _{rr}	ns	I_F =10mA, V_R =6V, R_L =500 Ω , I_{rr} =1mA	4

■ Typical Characteristics (Per Leg)



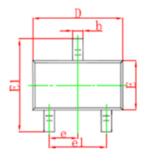


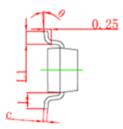
Leakage current versus junction temperature

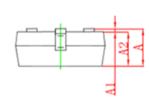




■SOT-23 Package Outline Dimensions

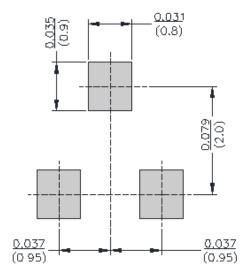






Symbol -	Dimensions In	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0. 900	1. 150	0.035	0. 045	
A1	0.000	0. 100	0.000	0.004	
A2	0. 900	1. 050	0. 035	0.041	
b	0.300	0. 500	0.012	0.020	
с	0. 100	0. 200	0.004	0.008	
D	2, 800	3, 000	0. 110	0. 118	
Е	1. 200	1. 400	0.047	0. 055	
E1	2. 250	2, 550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	1. 800	2.000	0.071	0. 079	
L	0.55	OREF	0. 022REF		
L1	0.300	0. 500	0.012	0.020	
θ	0°	8°	0°	8°	

■SOT-23Suggested Pad Layout





MMBD4148

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