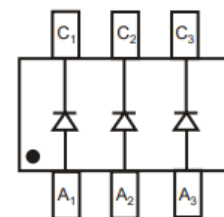
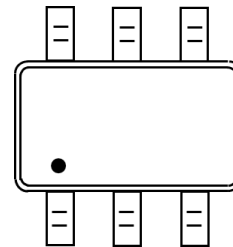


FEATURES AND BENEFITS

Product Summary		
I_O	150mA	@25 °C
V_F	0.715V	@1mA
V_{RRM}	75V	@25 °C

- For General Purpose Switching Applications
- High Conductance
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020

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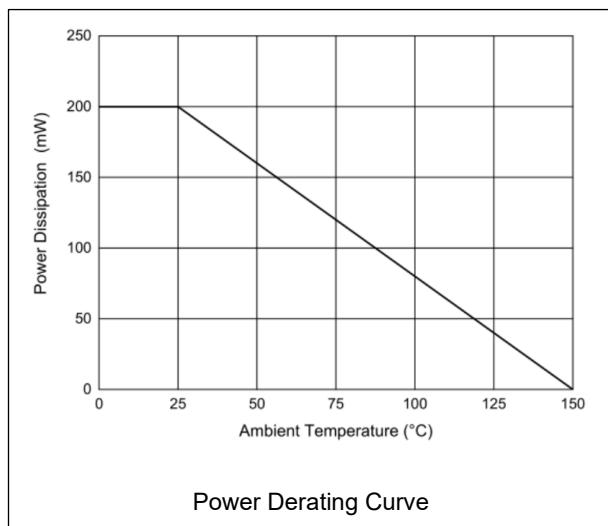
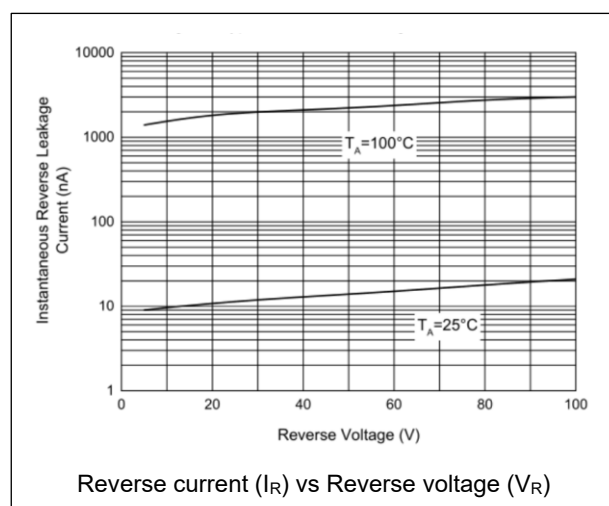
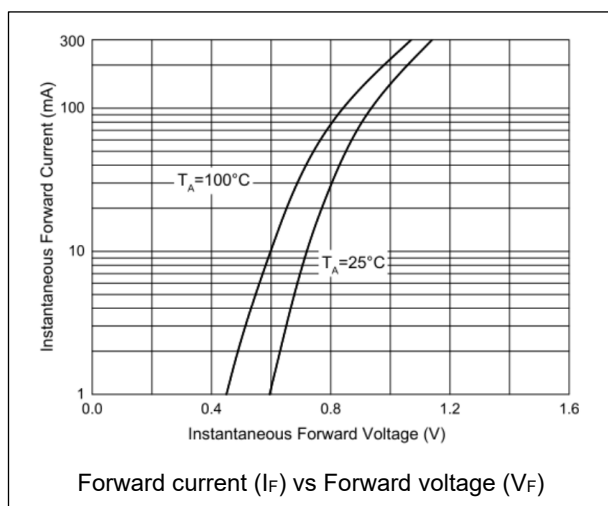
Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Working Reverse Voltage	V_{RWM}	75	V
Repetitive Peak Forward Current	I_{FRM}	300	mA
Continuous Forward Current	I_O	150	mA
Non-Repetitive Peak Forward Surge Current (@t=8.3ms)	I_{FSM}	2	A
Power Dissipation	P_{TM}	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	625	°C/W

* Device mounted on 1"x1" FR4 PCB

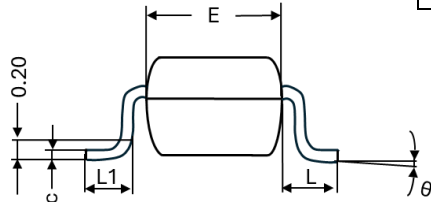
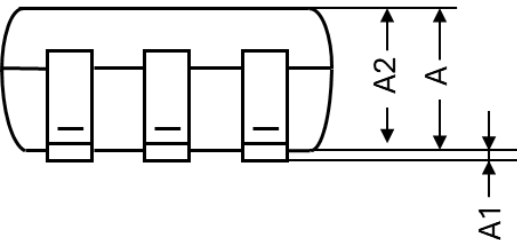
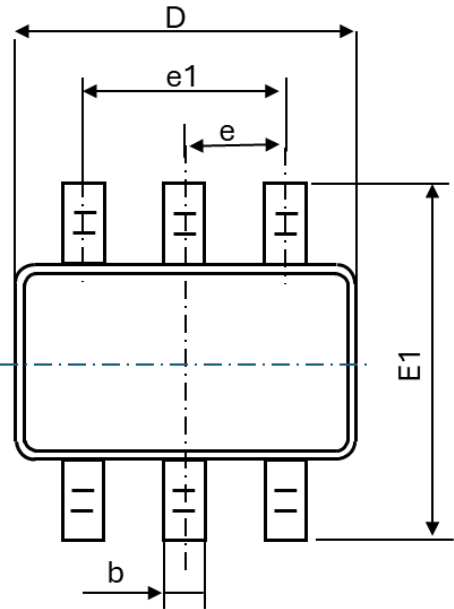
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Reverse Breakdown Voltage	V_{BR}	$I_R = 10\mu A$	75		
Forward Voltage	V_F	$I_F = 1mA$		0.715	V
		$I_F = 10mA$		0.855	V
		$I_F = 50mA$		1.00	V
		$I_F = 150mA$		1.25	V
Reverse Current	I_R	$V_R = 20V$		25	nA
		$V_R = 75V$		1	μA
Capacitance	C_T	$V_R = 0V, f = 1MHz$		2.0	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$		4.0	ns

RATING AND CHARACTERISTICS CURVES



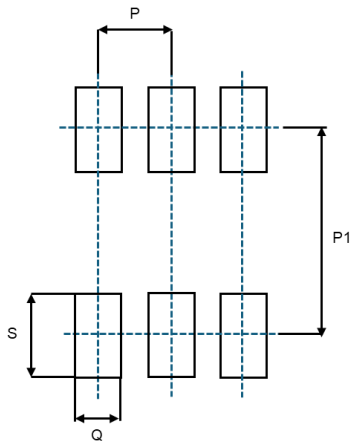
PACKAGE OUTLINE DIMENSIONS

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Symbol	MIN	MAX
A	0.90	1.00
A1	0.00	0.10
A2	0.90	1.00
b	0.15	0.35
c	0.10	0.15
D	2.00	2.20
E	1.15	1.35
E1	2.15	2.40
e	0.650TYP.	
e1	1.20	1.40
L	0.525REF.	
L1	0.26	0.46
θ	0°	8°
Unit: mm		

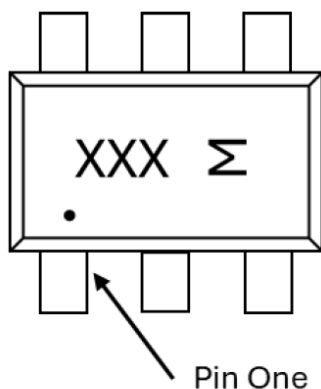
SUGGESTED PAD LAYOUT



Symbol	Type
P	0.65
P1	1.94
Q	0.40
S	0.816
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
MMBD4148TW	KA2	3000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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