



SOT-363 Plastic-Encapsulate Diodes

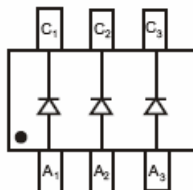
MMBD4148TW

SWITCHING DIODES

SOT-363

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



MARKING: MMBD4148TW KA2

Moisture Sensitivity Level 1

Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	100	V
Peak Repetitive Peak reverse voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Peak forward surge current @=1.0μs	I_{FSM}	2.0	A
@=1.0s		1.0	
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	K/W
Junction temperature	T_j	150	°C
Storage temperature	T_{STG}	-65~+150	°C

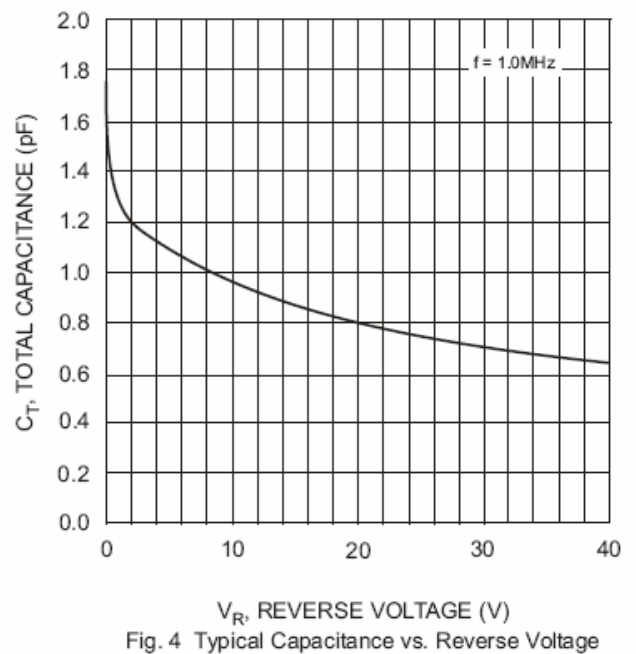
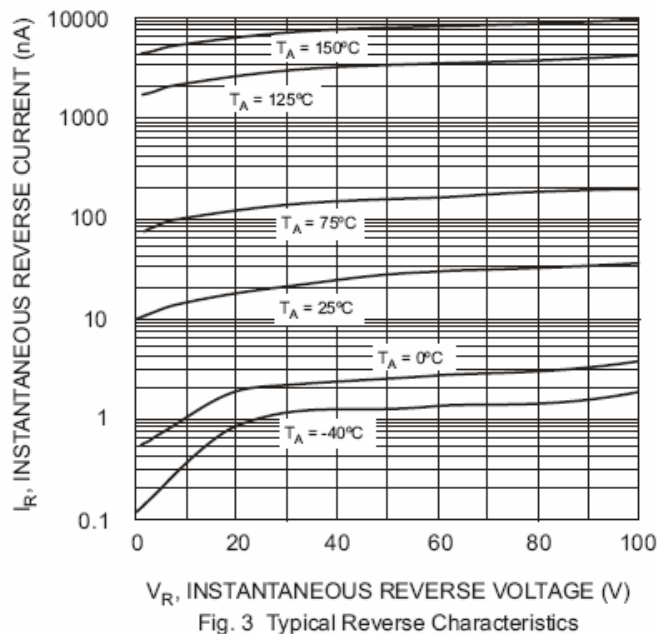
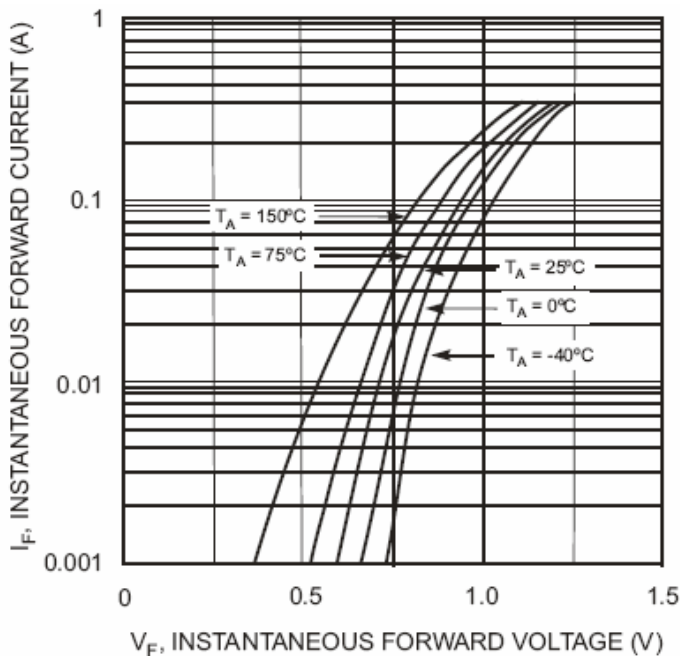
Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	75			V	$I_R=10\mu A$
Forward voltage	V_{F1}			0.715	V	$I_F=1mA$
	V_{F2}			0.855	V	$I_F=10mA$
	V_{F3}			1.0	V	$I_F=50mA$
	V_{F4}			1.25	V	$I_F=150mA$
Reverse current	I_{R1}			1	μA	$V_R=75V$
	I_{R2}			25	nA	$V_R=20V$
Capacitance between terminals	C_T			2	pF	$V_R=0V, f=1MHz$
Reverse Recovery Time	t_{rr}			4	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$



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Typical Characteristics

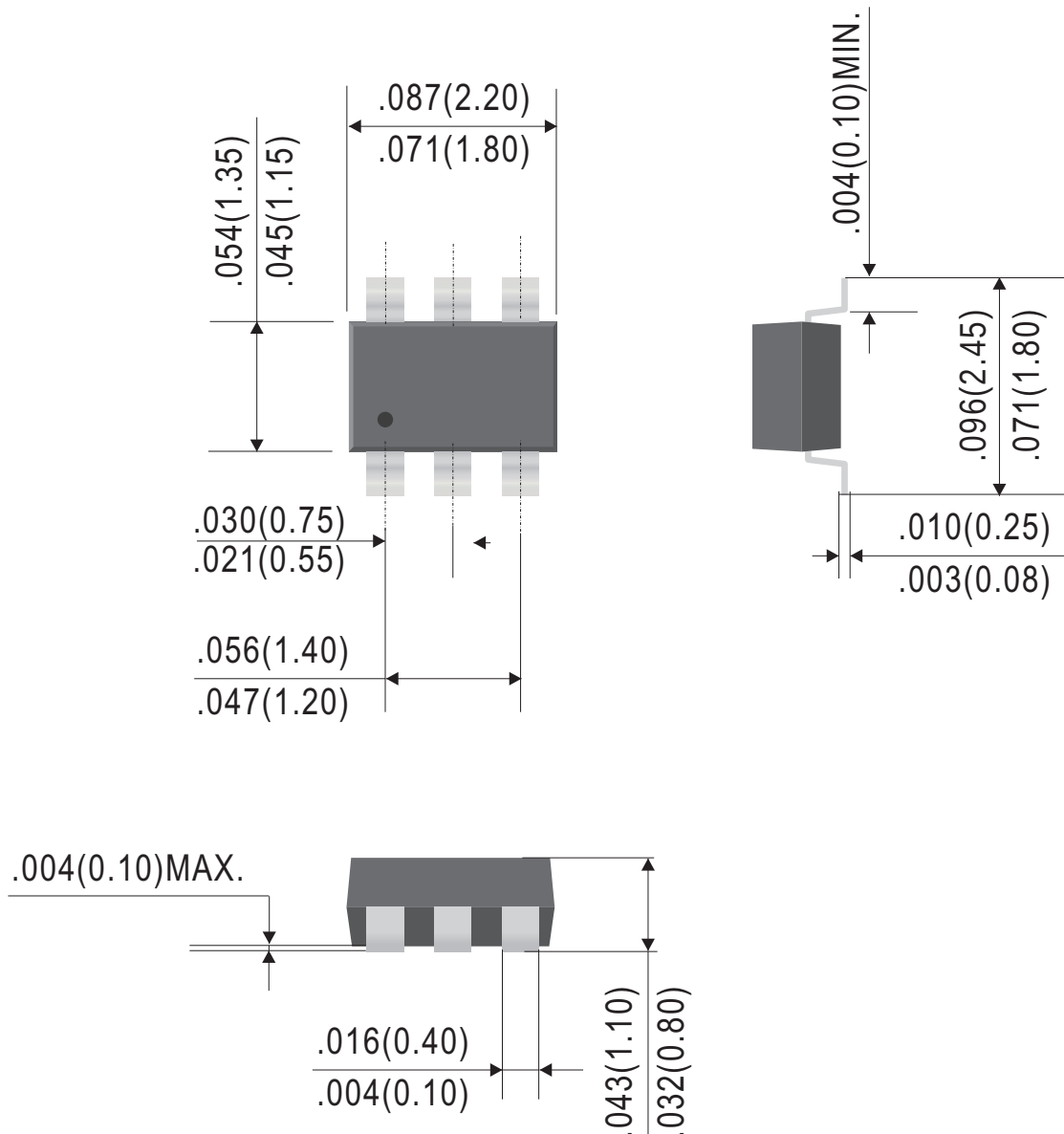




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Outline Drawing

SOT-363



Dimensions in inches and (millimeters)

Rev.C



WILLAS



MMBD4148TW

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Ordering Information:

Device PN	Packing
MMBD4148TW-T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Reel Packing ; CASE: SOT-363

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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