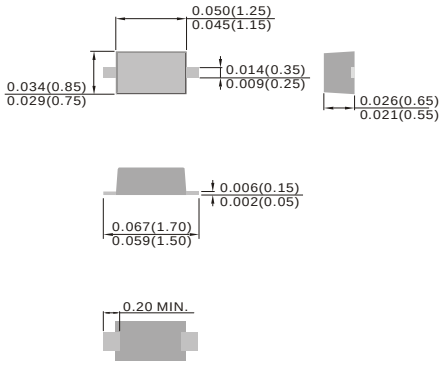
MMBD4148TS

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volt **POWER** 200mWatt

SOD-523 Unit : inch(mm)



FEATURES

- Fast switching Speed.
- Electrically Identical to Standerd JEDEC
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-523 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Standard packaging: 8mm tape
- Approx. Weight : 0.0001 ounces, 0.0014 grams
- Marking Code: A2

ABSOLUTE RATINGS (T_A=25°C , unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RRM}	100	V
RMS Voltage	V_{RMS}	50	V
Maximum DC Blocking Voltage	V_{DC}	75	V
Maximum Average Forward Current at T_A=25 °C	$I_{F(AV)}$	150	mA
Peak Forward Surge Current, 1.0 μs	I_{FSM}	4	A
Power Dissipation Derate Above 25 °C	P_{TOT}	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-40 to 150	°C

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Typical Thermal Resistance	$R_{\theta JA}$	635	°C / W

MMBD4148TS

ELECTRICAL CHARACTERISTICS (T_A=25°C , unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Maximum Forward Voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA	0.715 0.855 1.00 1.25	V
Reverse Leakage Current	I_R	V_R=20V V_R=75V	0.025 2.5	μA
Maximum Total Capacitance	C_T	V_R=0V, f=1MHz	1.5	pF
Maximum Reverse Recovery Time	t_{rr}	I_F=10mA,I_R=1mA V_R=6V,R_L=100Ω	4	ns

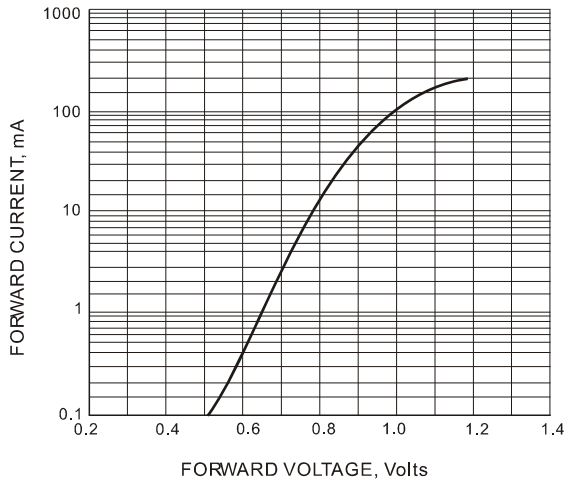


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

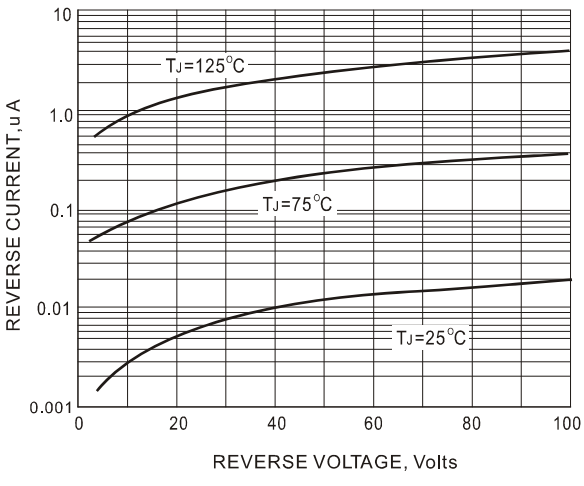


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

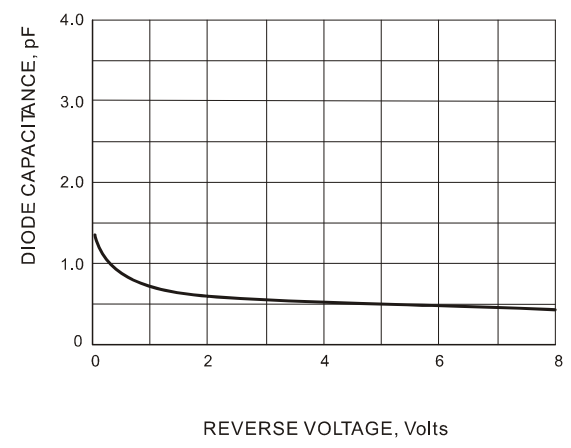


FIG. 3 TYPICAL JUNCTION CAPACITANCE

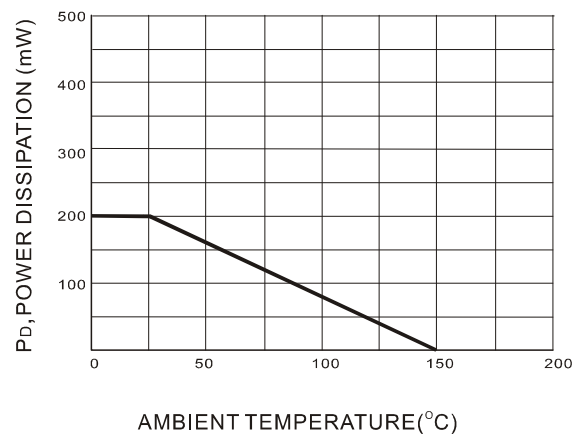
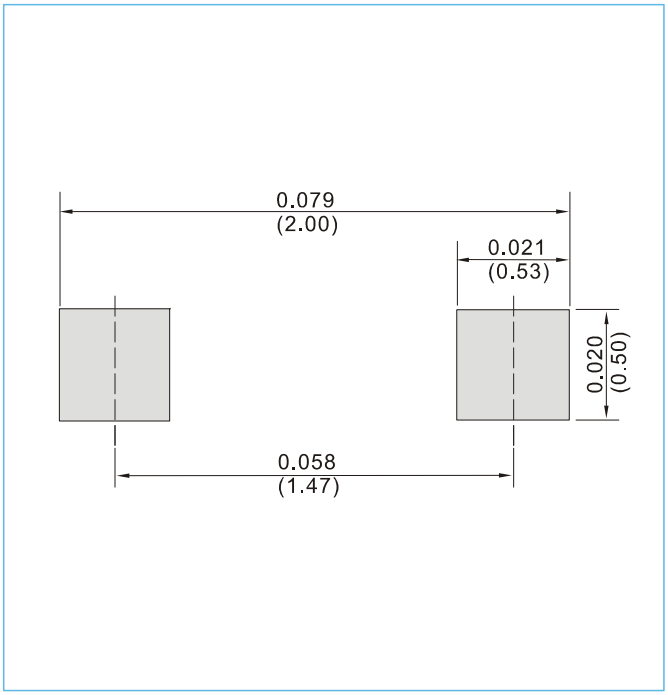


FIG. 4 POWER DERATING CURVE

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MOUNTING PAD LAYOUT

SOD-523 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

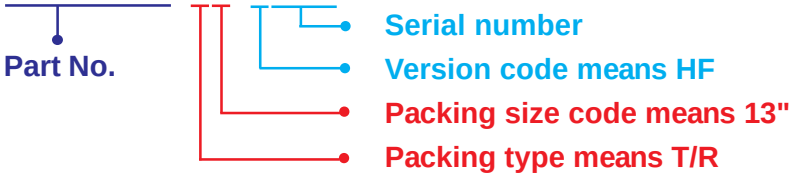
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Part No_packing code_Version

MMBD4148TS_R1_00001
MMBD4148TS_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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