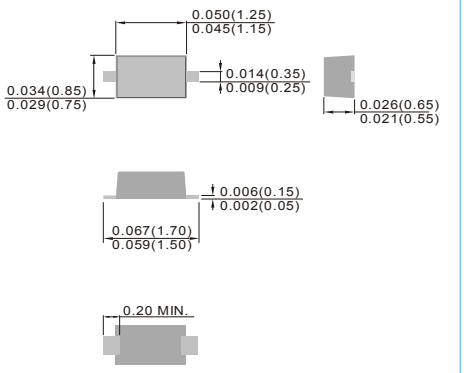
MMBD4148TS

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

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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

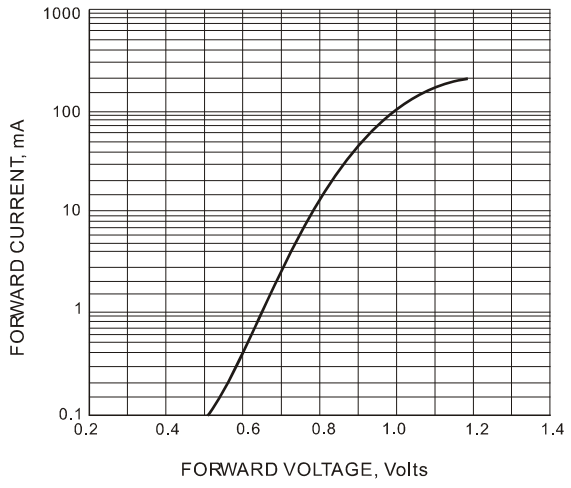

FIG. 1 TYPICAL FORWARD CHARACTERISTIC

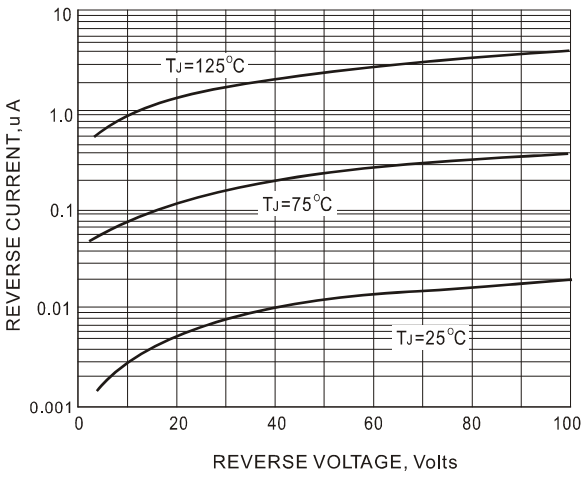

FIG. 2 TYPICAL REVERSE CHARACTERISTICS

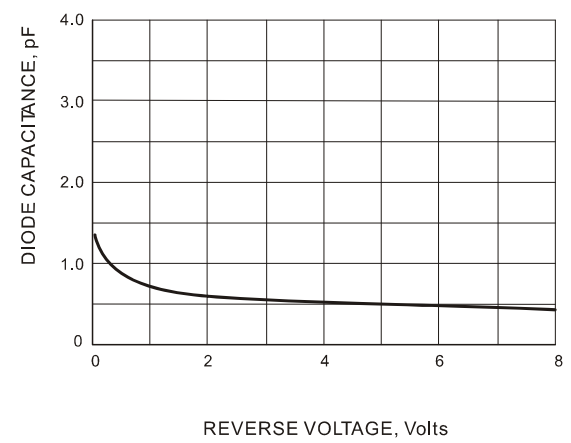

FIG. 3 TYPICAL JUNCTION CAPACITANCE

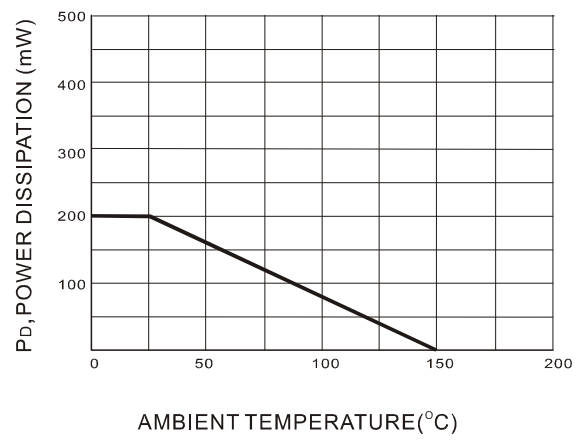

FIG. 4 POWER DERATING CURVE

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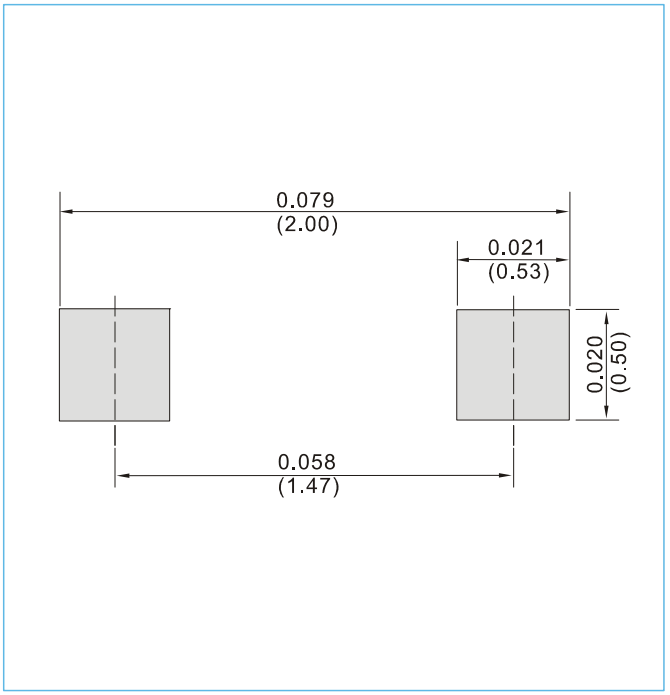
MOUNTING PAD LAYOUT

SOD-523 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel