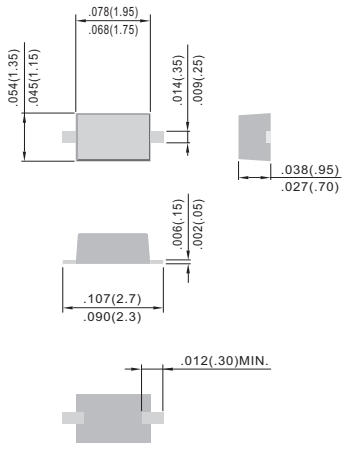
# MMBD717WS

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 20 Volts **CURRENT** 200 mA

**SOD-323** Unit: inch (mm)




### FEATURES

- Very Low $V_F$: 0.32V (Typ) at $I_F$ = 1mA
- Low Capacitance: 2.5 pF (Max) at $V_R$=0V
- Extremely Fast Switching Speed
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.041 gram

### MAXIMUM RATINGS AND ELECTRICAL AHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| Parameter | Symbol | MMBD717WS | Units |
|---|---|---|---|
| Marking Code | - | P70 | - |
| Maximum Reverse Voltage | $V_R$ | 20 | V |
| Peak Reverse Voltage | $V_{RRM}$ | 20 | V |
| Maximum Forward Current | $I_F$ | 0.2 | A |
| Power Dissipation (1) | $P_{tot}$ | 200 | mW |
| Thermal Resistance , Junction to Ambient (1) | $R_{\theta J A}$ | 625 | °C/W |
| Junction Temperature Range | $T_J$ | -55 to +150 | °C |
| Storage Temperature Range | $T_{STG}$ | -55 to +150 | °C |

Note:
1. FR-4 Board = 70 x 60 x 1mm.

# MMBD717WS

## ELECTRICAL CHARACTERISTICS (each diode) ($T_J$ = 25°C unless otherwise noted)

| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|---|
| Reverse Breakdown Voltage | $V_{(BR)}$ | $I_R$=10μA | 20 | - | - | V |
| Reverse Leakage Current | $I_R$ | $V_R$=10V | - | - | 1.0 | μA |
| Forword Voltage | $V_F$ | $I_F$=1.0mA | - | - | 0.37 | V |
| Total Capacitance | $C_J$ | $V_R$=1V, f=1.0MHz | - | - | 2.5 | pF |

## ELECTRICAL CHARACTERISTICS CURVE

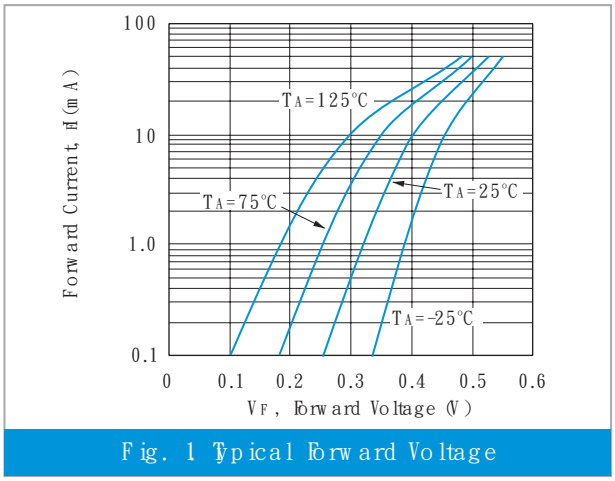



Fig. 1 Typical Forward Voltage

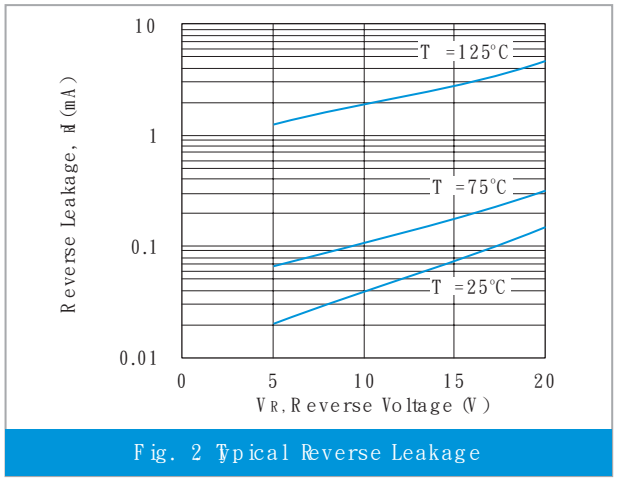



Fig. 2 Typical Reverse Leakage

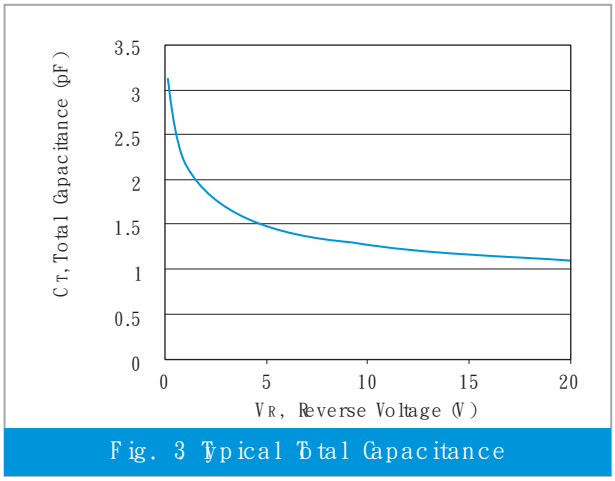
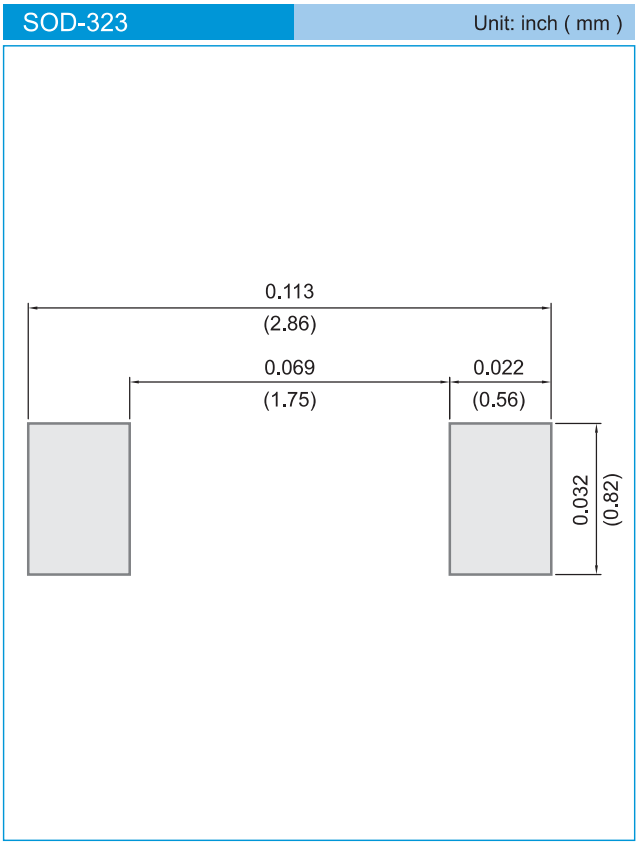



Fig. 3 Typical Total Capacitance

# MMBD717WS

## MOUNTING PAD LAYOUT

SOD-323 Unit: inch ( mm )




## ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

## LEGAL STATEMENT

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