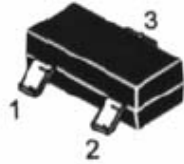




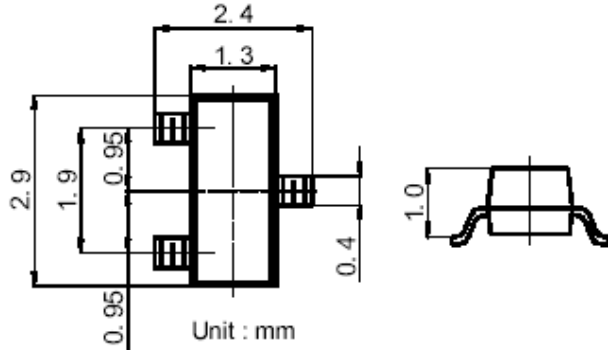
FMBD4148A/SE/CC/CA

Description

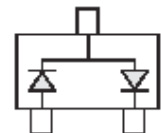
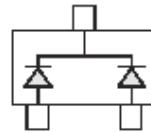
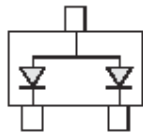
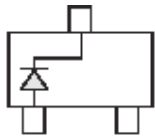


SOT-23

Mechanical Dimensions



Dimensions in mm



MARKING:

FMBD4148A:5H

FMBD4148CA :D6

FMBD4148CC :KD5

FMBD4148SE :D4

Maximum Ratings @T_A=25°C

| Parameter | Symbol | Limits | Unit |
|--------------------------------------|------------------|---------|------|
| Peak Repetitive Peak reverse voltage | V _{RRM} | 100 | V |
| Working Peak Reverse Voltage | V _{RWM} | | |
| DC Blocking Voltage | V _R | | |
| Forward Continuous Current | I _{FM} | 200 | mA |
| Power Dissipation | P _d | 350 | mW |
| Storage temperature | T _{STG} | -55-150 | °C |

Electrical Characteristics@T_A=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---------------------------|---------------------|------|------|--------|------|---|
| Reverse Breakdown Voltage | V _{(BR)R1} | 100 | | | V | I _R =100μA |
| | V _{(BR)R2} | 75 | | | V | I _R =5μA |
| Forward voltage | V _F | | | 1/1.25 | V | I _F =10mA /150mA |
| Reverse current | I _{R1} | | | 25 | nA | V _R =25V |
| | I _{R2} | | | 5 | uA | V _R =75V |
| Diode Capacitance | C _D | | | 4 | pF | V _R =0V,f=1MHz |
| Reverse Recovery Time | t _{rr} | | | 4 | nS | I _F =10mA,V _R =6V I _{rr} =0.1X I _R ,R _L =100Ω |

Typical Characteristics

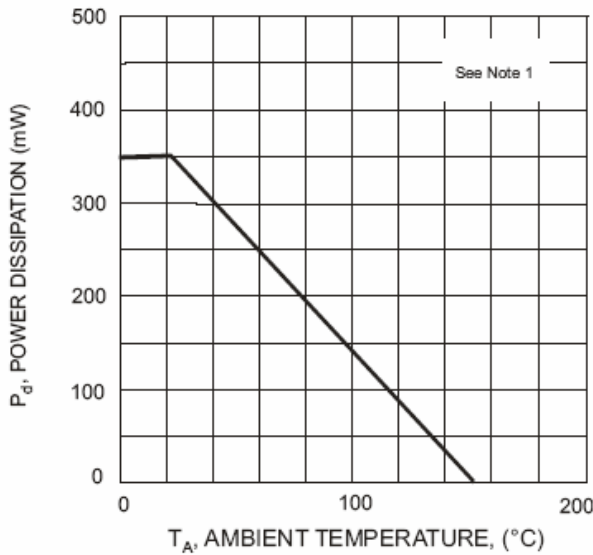


Fig. 1 Power Derating Curve

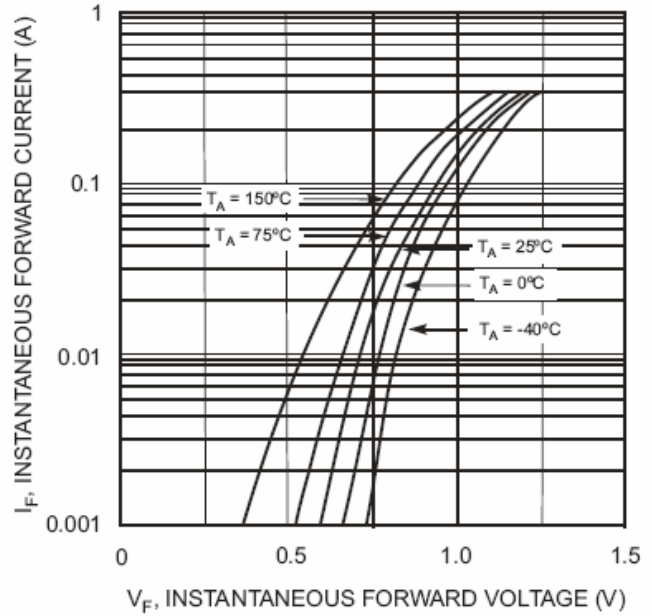


Fig. 2 Forward Characteristics

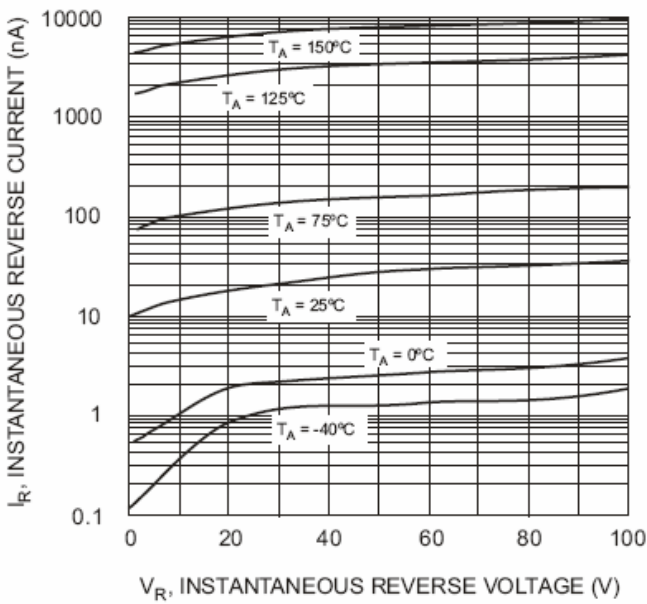


Fig. 3 Typical Reverse Characteristics

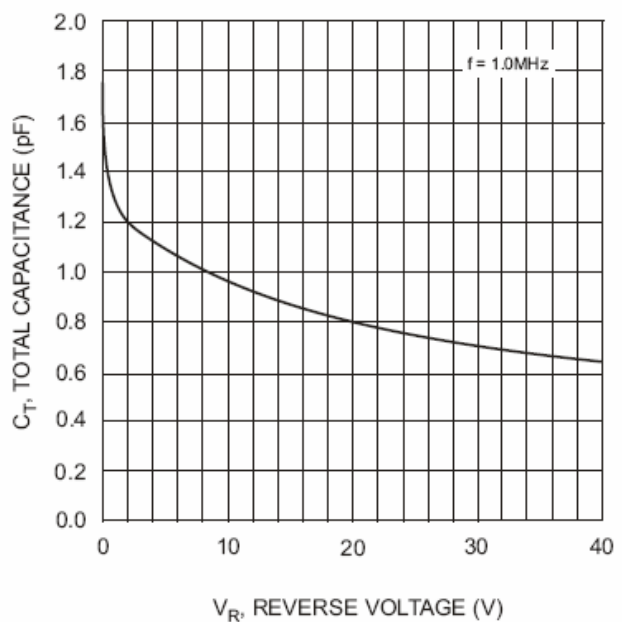


Fig. 4 Typical Capacitance vs. Reverse Voltage