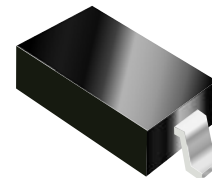
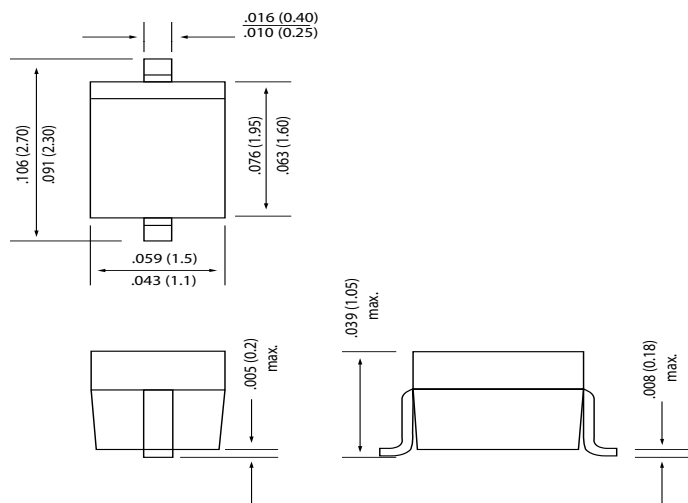


Surface Mount Schottky Barrier Diodes



SOD-323

Dimensions in inches and (millimeters)

Features

- Fast Switching
- Low Turn-on Voltage
- Designed For Surface Mount Application
- PN Junction Guard For Transient And ESD Protection
- Plastic Material -- UL Recognition Flammability Classification 94V-0

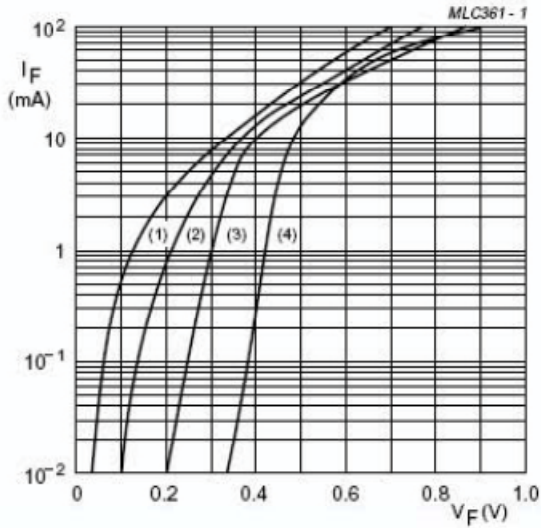
Maximum Ratings and Electrical Characteristics, Single Diode @TA=25°C

| Parameter | Symbol | Limits | Unit |
|----------------------------------------|-----------------|-----------|------|
| Peak Repetitive Peak reverse voltage | V_{RRM} | 40 | V |
| Working Peak Reverse Voltage | V_{RWM} | | |
| DC Blocking Voltage | V_R | | |
| Forward Continuous Current | I_F | 200 | mA |
| Peak forward surge current @<1.0s | I_{FSM} | 600 | mA |
| Power Dissipation | P_d | 200 | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 625 | K/W |
| Junction, Storage temperature | T_J, T_{STG} | -55 ~ 150 | °C |

Electrical Ratings @TA=25°C

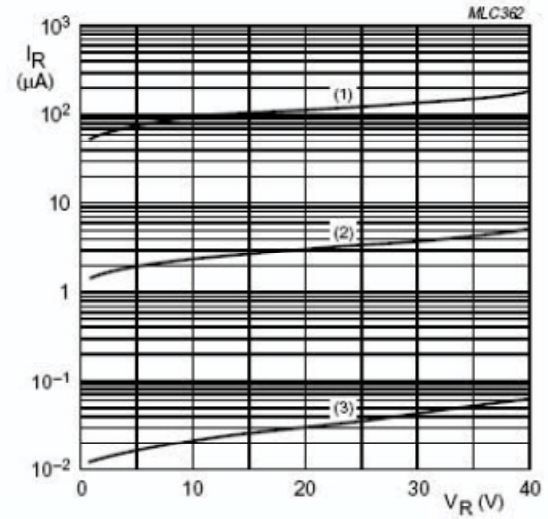
| Parameter | Symbol | Max | Unit |
|----------------------------------------------------------------------|----------|------|------|
| Forward voltage $I_F=1mA$ | V_{F1} | 0.38 | V |
| $I_F=10mA$ | V_{F2} | 0.50 | |
| $I_F=40mA$ | V_{F3} | 1 | |
| Reverse current $V_R=30V$ | I_R | 200 | nA |
| Capacitance between terminals $V_R=0V, f=1MHz$ | C_T | 5 | pF |
| Reverse Recovery Time $I_F=I_R=10mA, I_{rr}=0.1X I_R, R_L=100\Omega$ | T_{rr} | 5 | ns |
| Marking code | | 43 | |

Surface Mount Schottky Barrier Diodes



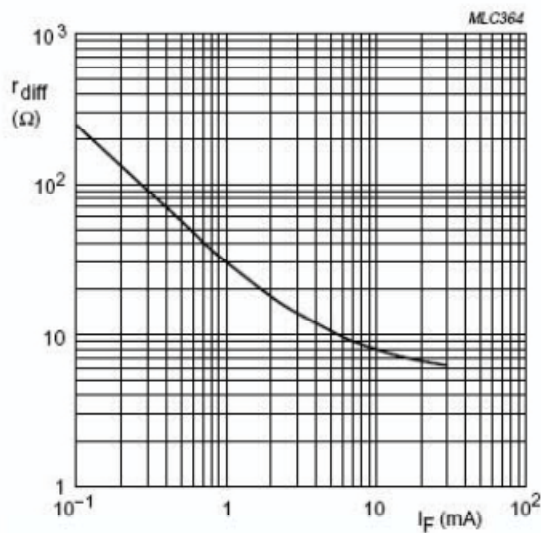
- (1) $T_{amb} = 150\text{ }^{\circ}\text{C}$.
- (2) $T_{amb} = 85\text{ }^{\circ}\text{C}$.
- (3) $T_{amb} = 25\text{ }^{\circ}\text{C}$.
- (4) $T_{amb} = -40\text{ }^{\circ}\text{C}$.

Fig.1 Forward current as a function of forward voltage; typical values.



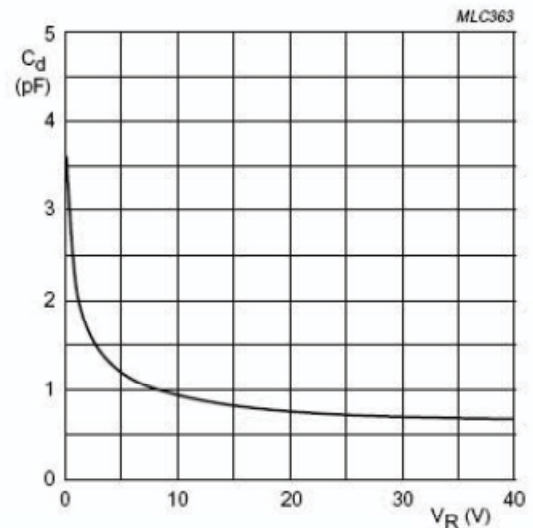
- (1) $T_{amb} = 150\text{ }^{\circ}\text{C}$.
- (2) $T_{amb} = 85\text{ }^{\circ}\text{C}$.
- (3) $T_{amb} = 25\text{ }^{\circ}\text{C}$.

Fig.2 Reverse current as a function of reverse voltage; typical values.



$f = 10\text{ KHz}$.

Fig.3 Differential forward resistance as a function of forward current; typical values.



$f = 1\text{ MHz}; T_{amb} = 25\text{ }^{\circ}\text{C}$.

Fig.4 Diode capacitance as a function of reverse voltage; typical values.