

### Features

- Fast switching speed
- Low reverse current
- Surface Mount Package Ideally Suited for Automatic Insertion

### Mechanical Characteristics

- Case: SOD-523FL plastic case
- Tape Reel: 3000pcs

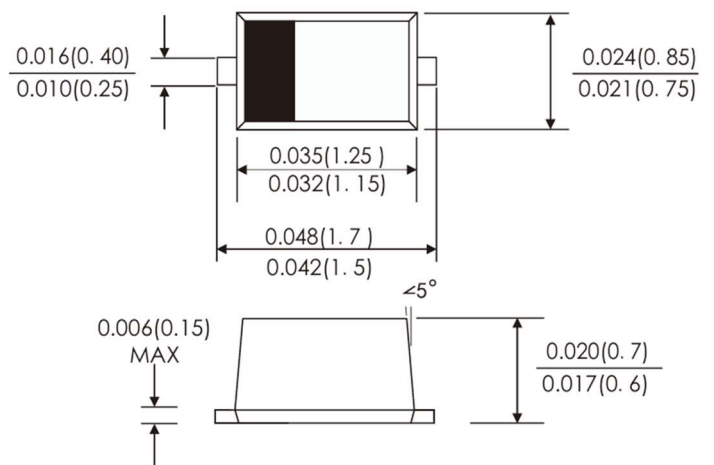
### Applications

- Electronic computer
- Pulse
- Switching circuit

### Marking information

- Marking: 61

### SOD-523FL



Dimensions in inches and (millimeters)

**Absolute Maximum Ratings (T=25°C, unless otherwise noted)**

Parameter	Symbol	Value	Unit
Non-repetitive Peak reverse voltage	$V_{RM}$	100	V
RMS reverse voltage	$V_R$	53	V
Average rectified output current	$I_O$	250	mA
Peak Forward Surge Current @t=1.0μs	$I_{FSM}$	4	A
Power Dissipation	$P_D$	150	mW
Operating Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{STG}$	-55 ~ +150	°C
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W

**Electrical Characteristics (T=25°C, unless otherwise noted)**

Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage	$V_{BR}$	$I_R = 100\mu A$	75		V
Reverse Leakage Current	$I_R$	$V_R = 25V$		30	nA
		$V_R = 75V$		1	μA
Forward Voltage	$V_F$	$I_F = 1.0mA$		0.715	V
		$I_F = 10mA$		0.855	
		$I_F = 50mA$		1	
		$I_F = 150mA$		1.25	
Junction Capacitance	$C_J$	$V_R = 0V, f=1.0MHz$		1	pF
Reverse Recovery Time	$t_{rr}$	$I_R = I_F = 10mA,$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$		4	ns

**Typical Characteristics**

FIG 1-FORWARD CHARACTERISTICS

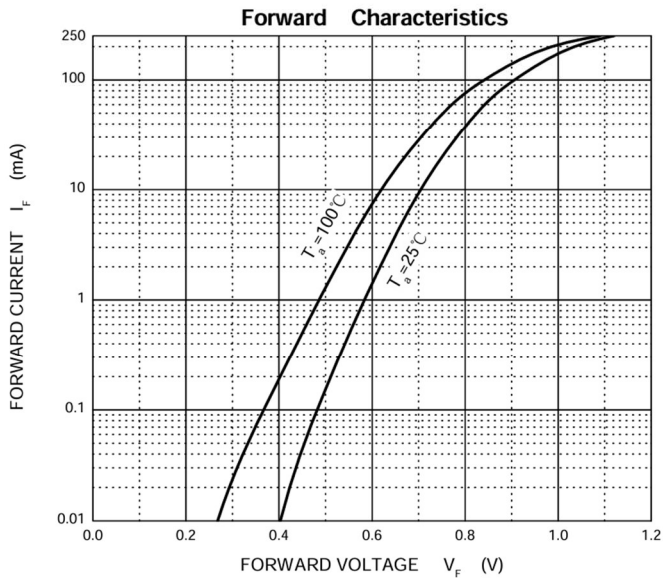


FIG 2-DYNAMIC FORWARD RESISTANCE VERSUS FORWARD CURRENT

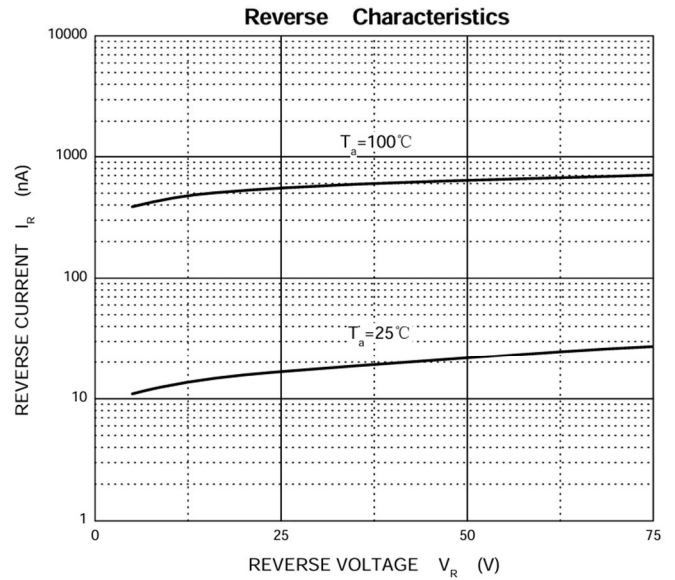


FIG 3-RELATIVE CAPACITANCE VERSUS VOLTAGE

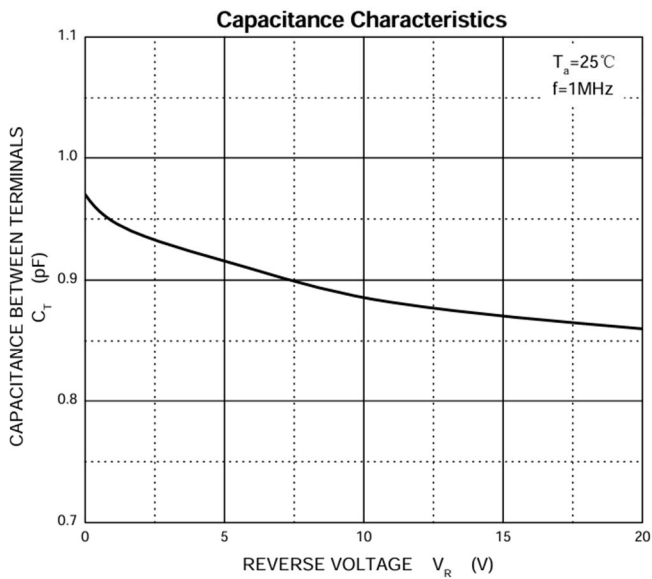


FIG 4-ADMISSIBLE POWER DISSIPATION VERSUS AMBIENT TEMPERATURE

