

FEATURES

- Low forward voltage drop
- Guard ring construction for transient protection
- Low reverse recovery time
- Low reverse capacitance

APPLICATIONS

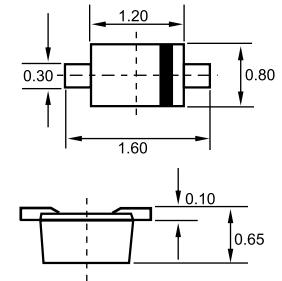
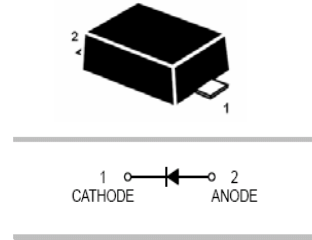
- Schottky barrier application

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%



SOD-523

Dimensions in inches and (millimeters)

Parameter	Symbol	SD103AX	Unit
Maximum Repetitive Peak Reverse Voltage	V_R	40	V
Maximum Forward Current	I_F	350	mA
Repetitive Peak Forward Current @ $t \leq 1.0s$	I_{FRM}	1	A
Total Power Dissipation	P_{tot}	400	mW
Maximum Instantaneous Forward Voltage $I_F = 20mA$ $I_F = 200mA$	V_F	0.37 0.60	V
Maximum DC Reverse Current $V_R = 30V$	I_R	5.0	μA
Maximum Reverse Recovery Time $I_F = I_R = 50mA, R_L = 100\Omega$	T_{rr}	10	ns
Typical Resistance Junction to Ambient	$R_{\theta JA}$	300	$^{\circ}C / W$
Operating Temperature Range	T_J	125	$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 to +125	$^{\circ}C$
Reverse Breakdown Voltage $I_R = 100\mu A$	$V_{(BR)R}$	40	V
Diode Capacitance (Typical) $V_R = 0V, f = 1MHz$	C_d	50	pF

TYPICAL CHARACTERISTICS @ $T_a = 25^{\circ}C$ unless otherwise specified

Fig. 1 Typical Forward Characteristics

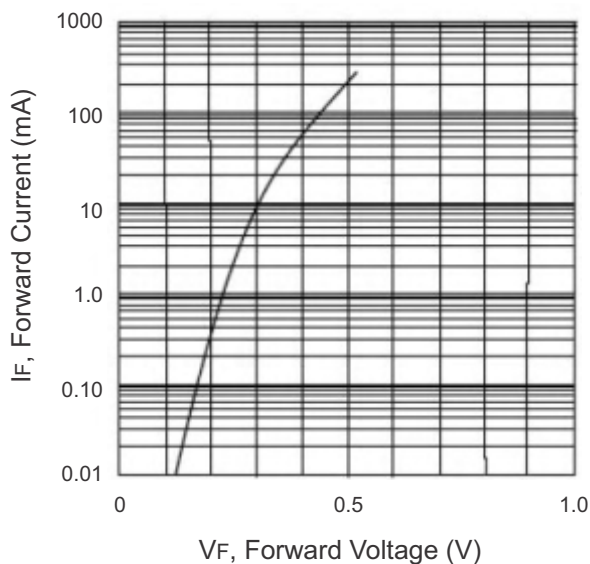


Fig. 2 Typical Junction Capacitance vs Reverse Voltage

