

High Speed Switching Diode

Reverse Voltage 90 Volts Forward Current 0.1 Ampere

Features

- High switching speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High reliability with high surge current handling capability
- RoHS compliant

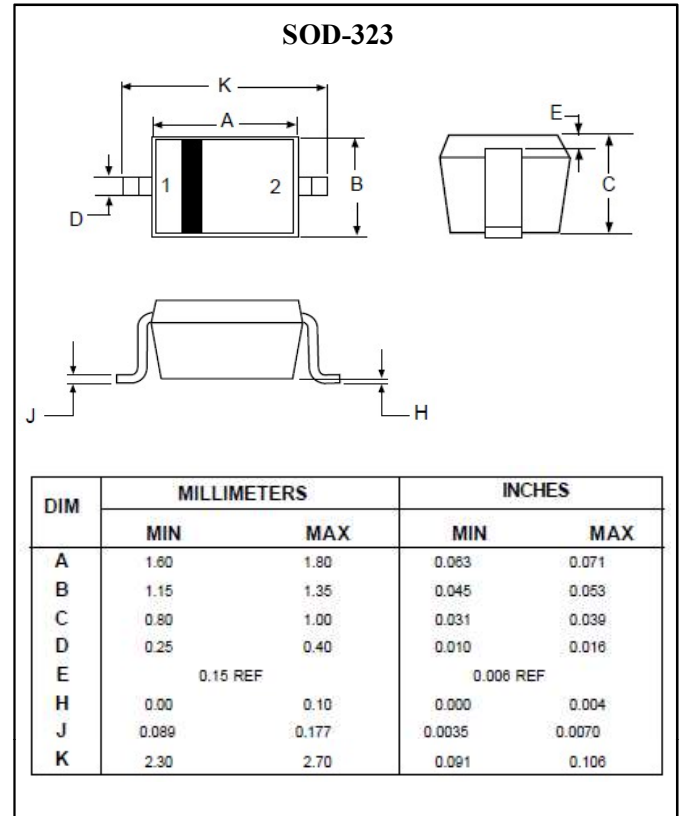
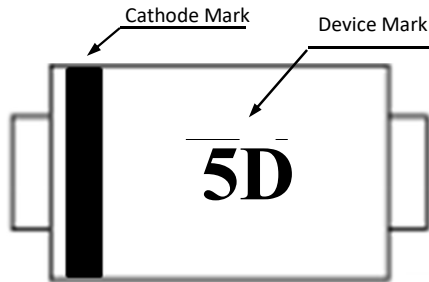
Typical Applications

- High-speed switching.

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band

Marking



Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Rated Value	Unit
Peak Reverse Voltage	V_{RM}	90	V
DC Reverse Voltage	V_R	80	V
Peak Forward Current	I_{FM}	225	mA
Mean Rectifying Current	I_O	100	mA
Surge Current (1s)	I_{surge}	500	mA
Operation Junction Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +125	°C

Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Max	Unit
Forward Voltage		$I_F = 100\text{mA}$	-	1.2	V
Reverse Current		$V_R = 80\text{V}$	-	0.1	uA
Capacitance Between Terminals	C_T	$V_R = 0.5\text{V}, f = 1\text{MHz}$	-	3.0	pF
Reverse Recovery Time	t_{rr}	$I_F = 10\text{mA}, V_R = 6\text{V}, I_{RR} = 1\text{mA}, R_L = 100\Omega$	-	4.0	ns

Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

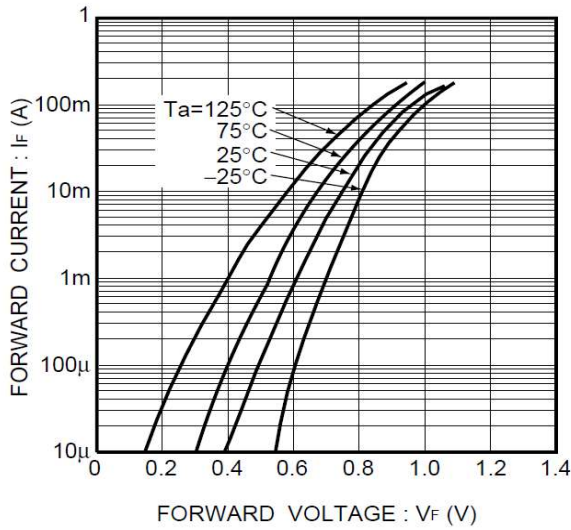


Fig.1 Forward characteristics

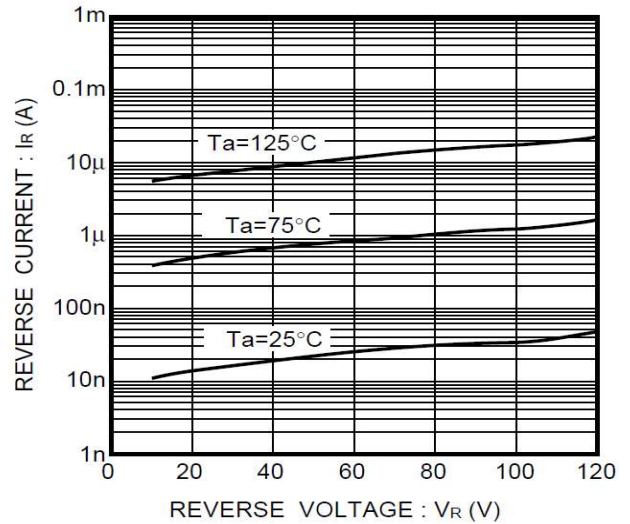


Fig.2 Reverse characteristics

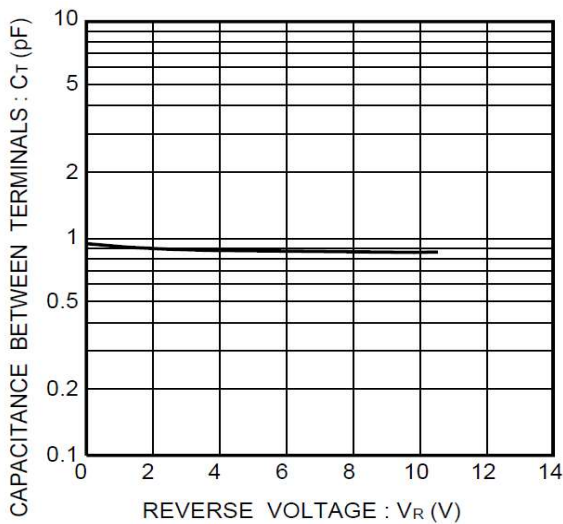


Fig.3 Capacitance between terminals characteristics

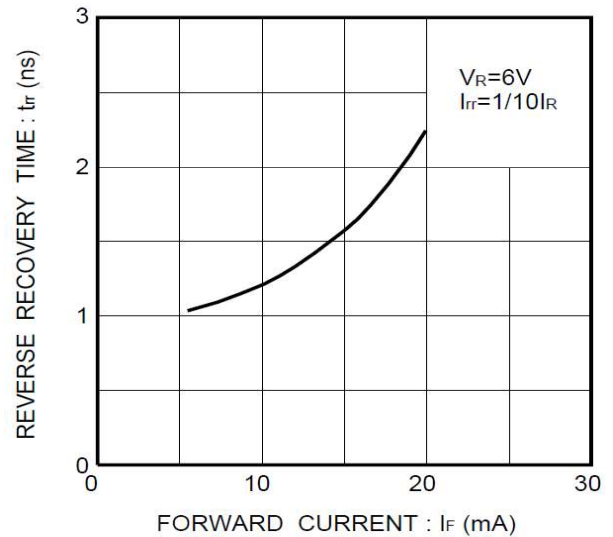


Fig.4 Reverse recovery time characteristics

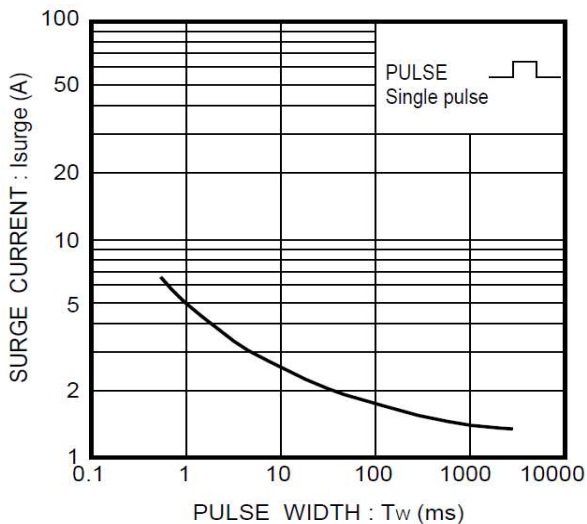


Fig.5 Surge current characteristics

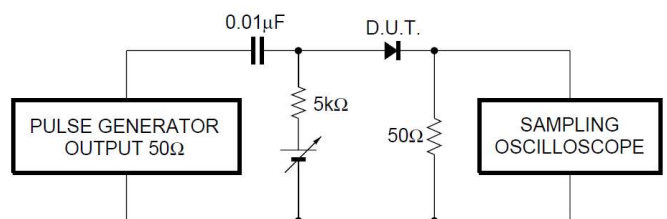


Fig.6 Reverse recovery time (t_{rr}) measurement circuit