

## High Speed Switching Diode

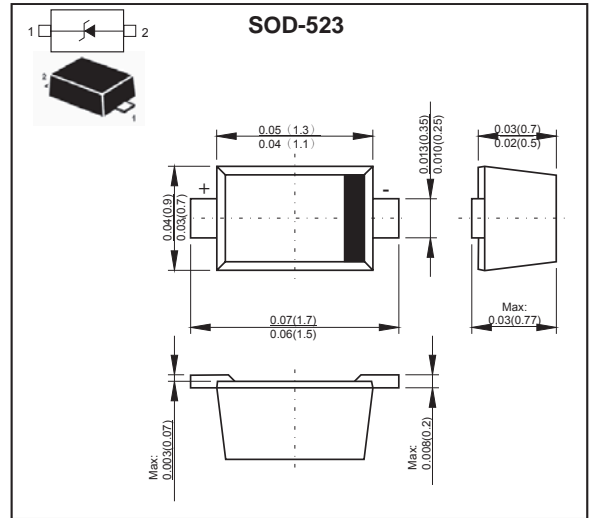
VOLTAGE RANGE: 30V PEAK PULSE POWER:150mW

### FEATURES

- Small surface mounting typ
- High speed
- High reliability with high surge current handing capability

### MECHANICAL DATA

- Case: SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



## MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	90	V
DC Blocking Voltage	$V_R$	80	V
Forward Continuous Current	$I_{FM}$	225	mA
Average Rectified Output Current	$I_O$	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	2.0	A
Power Dissipation	$P_d$	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{STG}$	-55~+150	°C

## Electrical Specification ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$			1.2	V	$I_F=100\text{mA}$
Reverse current	$I_R$			0.1	$\mu\text{A}$	$V_R=80\text{V}$
Capacitance between terminals	$C_T$			3.0	pF	$V_R=0.5\text{V}, f=1\text{MHz}$
Reverse recovery time	$t_{rr}$			4	ns	$V_R=6\text{V}, I_F=10\text{mA}, R_L=100\Omega$

MARKING:A



# RATINGS AND CHARACTERISTIC CURVES

## Typical Characteristics

