

1SS387

SWITCHING DIODE

VOLTAGE 85 Volt

POWER 150 mW

SOD-523

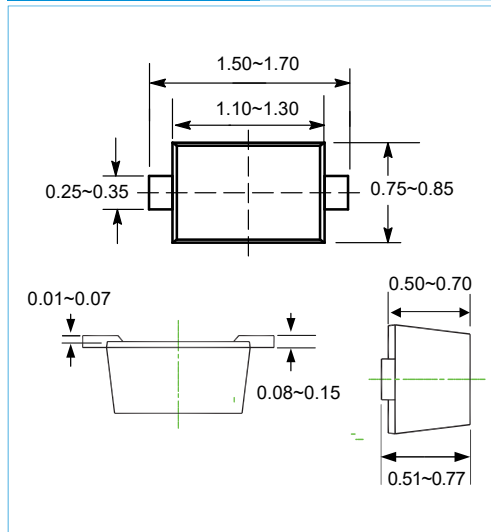
Unit:mm

FEATURES

- Small surface mounting type
- High reliability with high surge current handling capability
- High speed
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

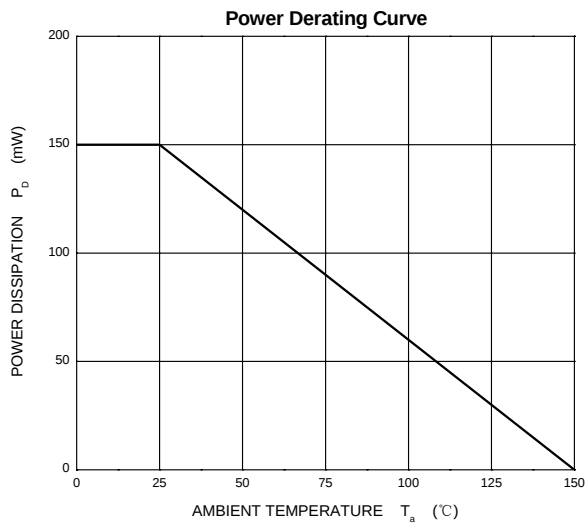
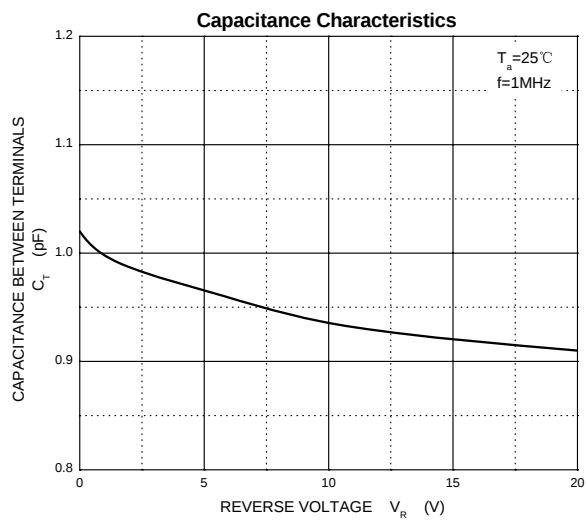
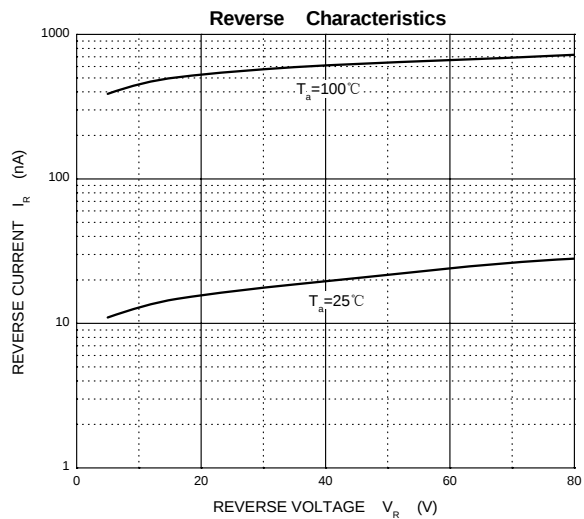
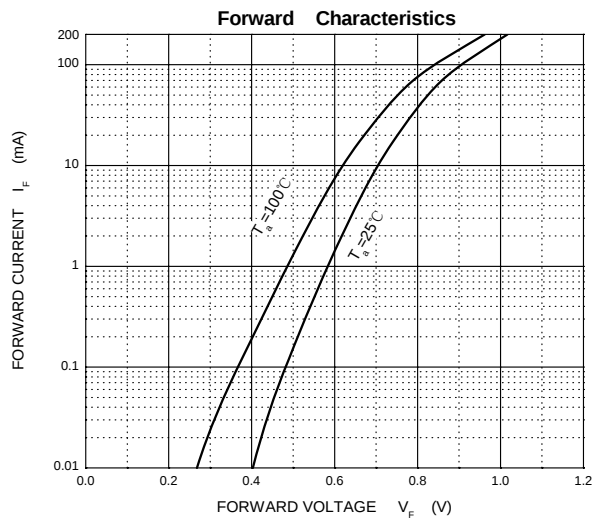
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Blocking Voltage	V_R	80	V
Forward Continuous Current	I_{FM}	200	mA
Average Rectified Output Current	I_O	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_d	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F		0.62 0.75	1.2	V V V	$I_F=1.0\text{mA}$ $I_F=10\text{mA}$ $I_F=100\text{mA}$
Reverse current	I_R			0.1 0.5	μA μA	$V_R=30\text{V}$ $V_R=80\text{V}$
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	$V_R=6\text{V}$, $I_F=10\text{mA}$, $R_L=100\Omega$

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RATING AND CHARACTERISTIC CURVES

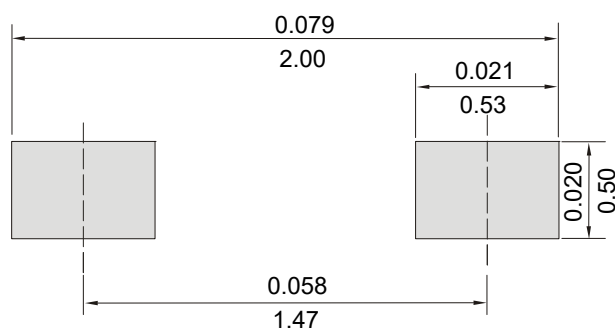


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MOUNTING PAD LAYOUT

SOD-523

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1SS387	SOD-523	7 Inch	8000