

1SS388

SWITCHING DIODE

VOLTAGE 45 Volt

POWER 150 mW

SOD-523

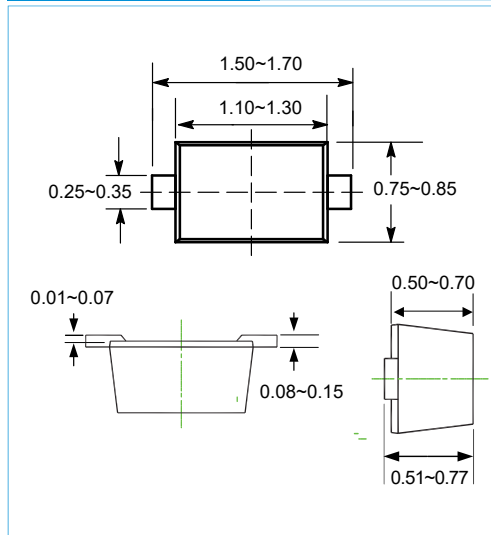
Unit:mm

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}	45	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	1.0	A
Power Dissipation	P_d	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	667	°C/W
Junction Temperature	T_j	125	°C
Storage Temperature	T_{STG}	-55~+150	°C

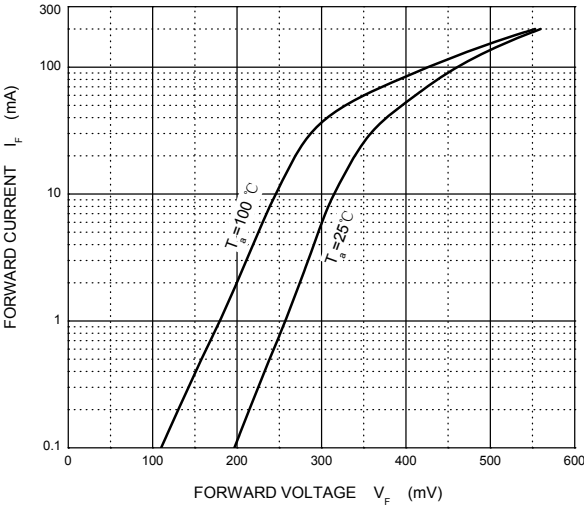
ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F		0.28		V	$I_F=1.0\text{mA}$
			0.36		V	$I_F=10\text{mA}$
			0.54	0.6	V	$I_F=100\text{mA}$
Reverse current	I_R			5	μA	$V_R=10\text{V}$
Capacitance between terminals	C_T		18	25	pF	$V_R=0.5\text{V}$, $f=1\text{MHz}$

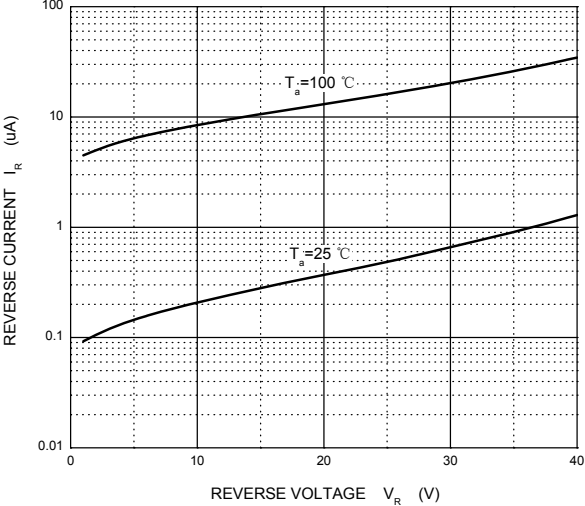
1SS388

RATING AND CHARACTERISTIC CURVES

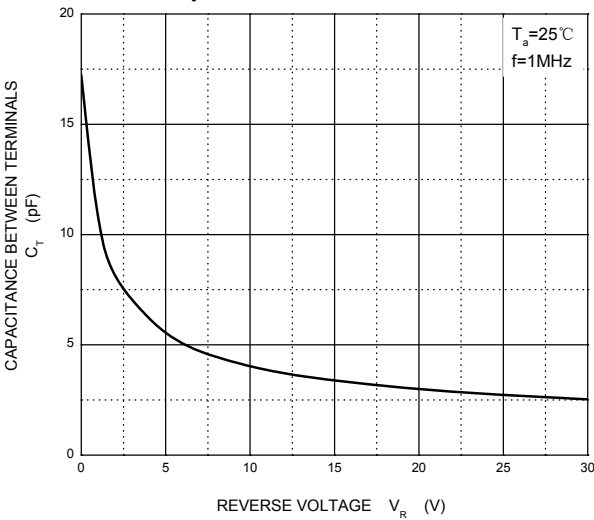
Forward Characteristics



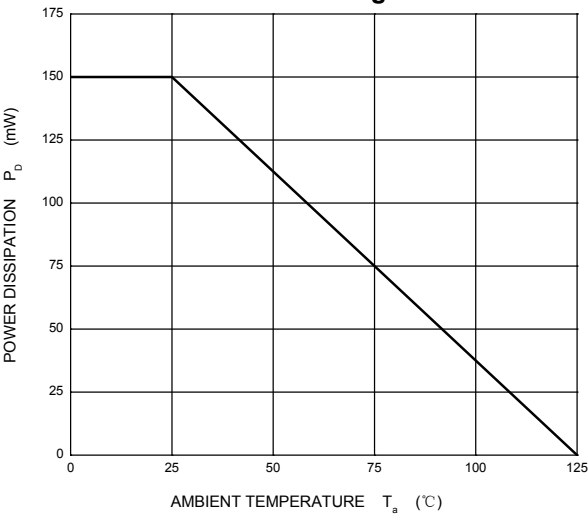
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

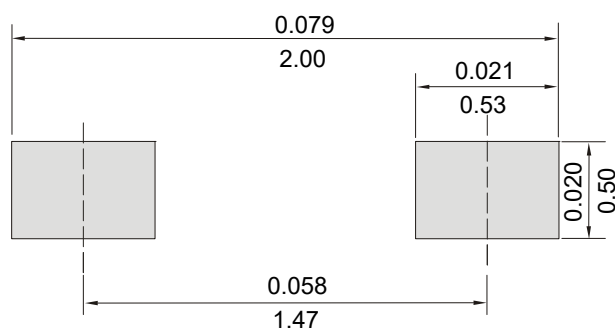


1SS388

MOUNTING PAD LAYOUT

SOD-523

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1SS388	SOD-523	7 Inch	8000