

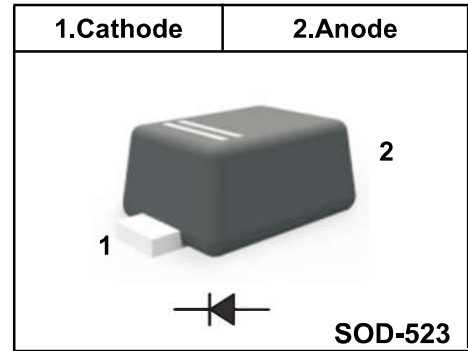
Plastic-Encapsulate Diodes

High Speed Switching Diode

FEATURES

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

Pinning



Marking Code

1SS387WT	G
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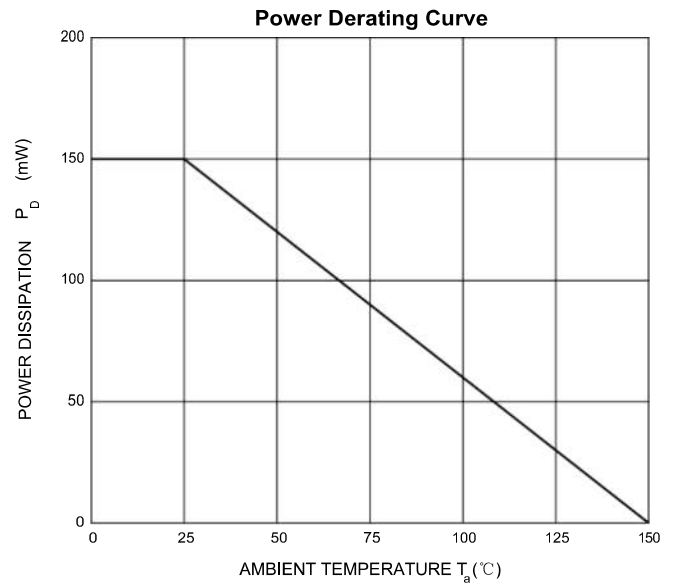
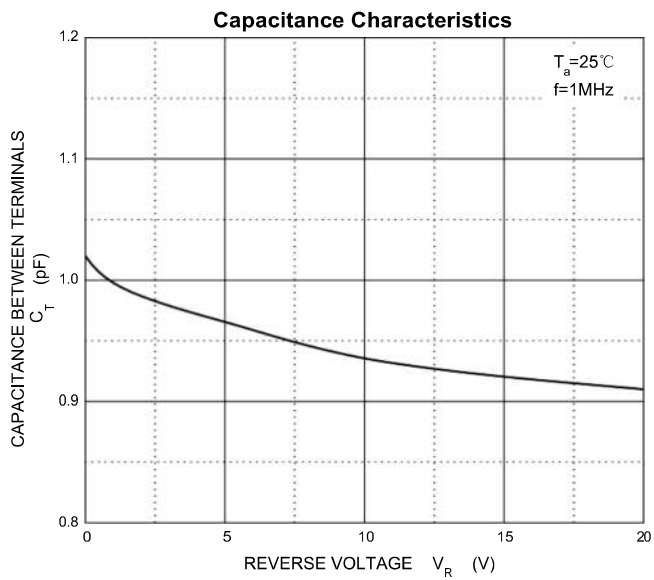
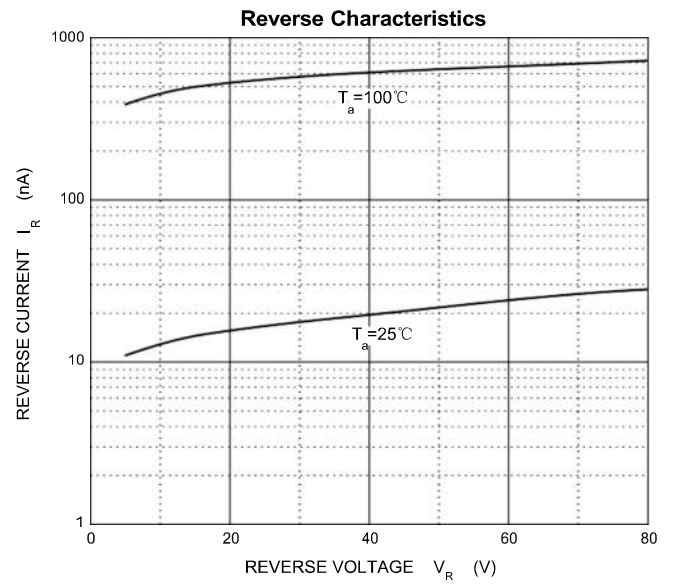
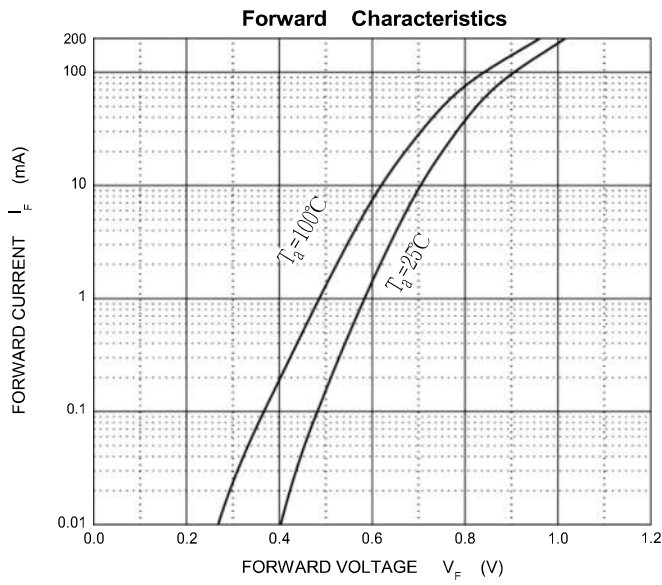
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

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 Ratings @Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}		0.62		V	$I_F=1mA$
	V_{F2}		0.75		V	$I_F=10mA$
	V_{F3}			1.2	V	$I_F=100mA$
Reverse current	I_{R1}			0.1	μA	$V_R=30V$
	I_{R2}			0.5	μA	$V_R=80V$
Capacitance between terminals	C_T			3.0	pF	$V_R=0, f=1MHZ$
Reverse recovery time	t_{rr}			4	ns	$V_R=6V, I_F=10mA, R_L=100\Omega$

Typical Characteristics



Ordering information

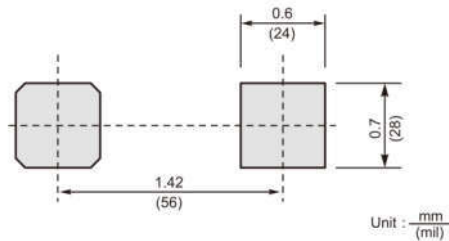
Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-523

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.51	0.77	20	30
e	0.25	0.35	10	14
C	0.08	0.15	3	6
D	1.10	1.30	43	51
E	0.75	0.99	30	39
HE	1.50	1.70	59	67
N	0.35ref		14ref	
L	0.2ref		8ref	
P	R0.1 ALL ROUND		R4.0 ALL ROUND	
∠	10°			

The recommended mounting pad size



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