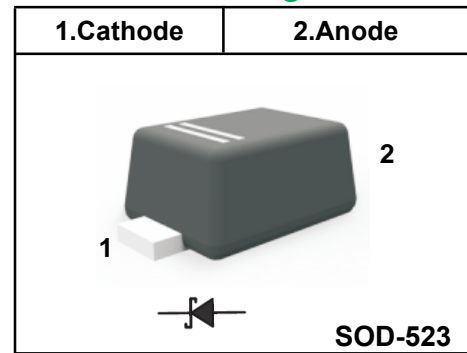


**Silicon Epitaxial Schottky Barrier Diode**

for high speed switching application

**Pinning**



**Marking Code**

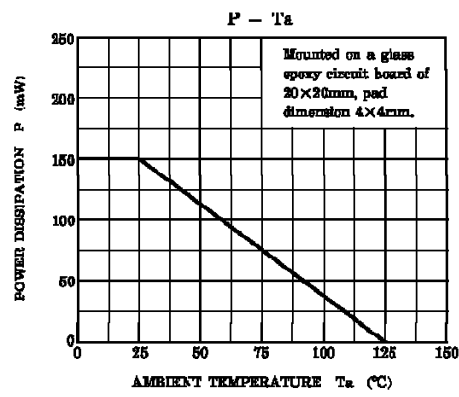
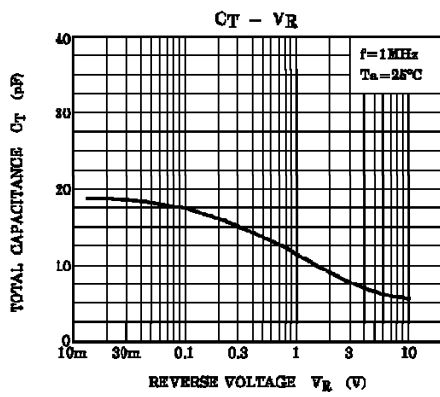
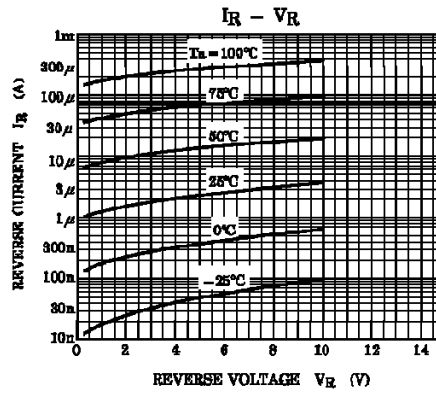
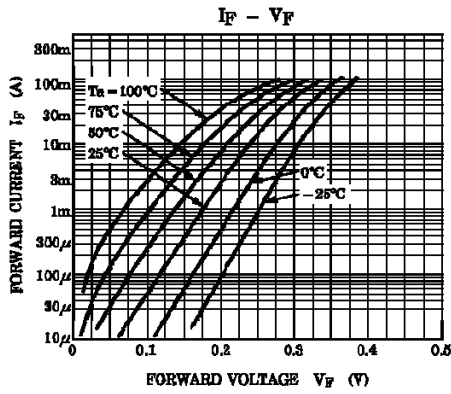
1SS389	N
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**Absolute Maximum Ratings (Ta = 25°C)**

Parameter	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	$V_{RM}$	15	V
Reverse Voltage	$V_R$	10	V
Average Forward Current	$I_{F(AV)}$	100	mA
Maximum (Peak) Forward Current	$I_{FM}$	200	mA
Surge Current (10 ms)	$I_{FSM}$	1	A
Power Dissipation	$P_{tot}$	150	mW
Operating Temperature Range	$T_{opr}$	- 40 to + 100	°C
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_{stg}$	- 55 to + 125	°C

**Characteristics at Ta = 25°C**

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 5$ mA at $I_F = 100$ mA	$V_F$	0.3 0.5	V
Reverse Current at $V_R = 10$ V	$I_R$	20	μA
Total Capacitance at $V_R = 0$ , $f = 1$ MHz	$C_T$	40	pF



**Ordering information**

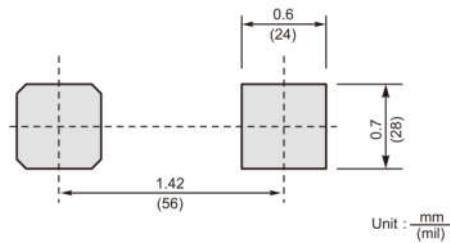
Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

**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**



## Disclaimer

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