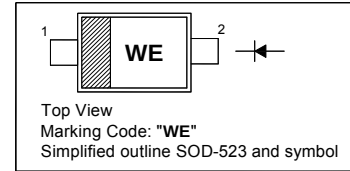


1PS70-02WT

Silicon PIN Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

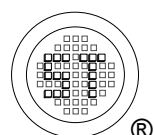


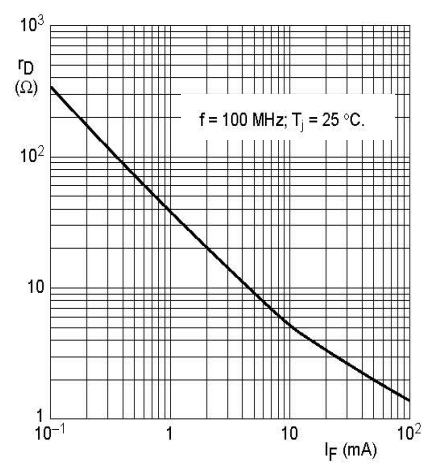
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	50	V
Continuous Forward Current	I_F	100	mA
Total Power Dissipation($T_S = 90^\circ\text{C}$)	P_{tot}	415	mW
Junction Temperature	T_j	- 65 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

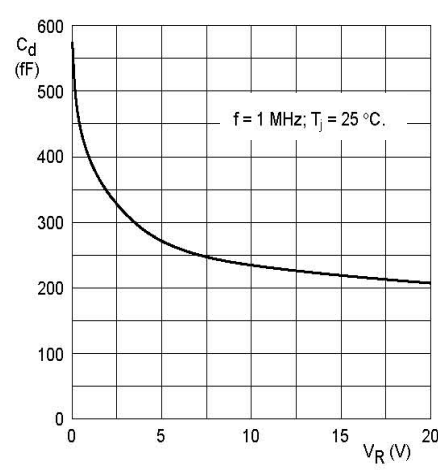
Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 50 \text{ mA}$	V_F	1.1	V
Reverse Current at $V_R = 50 \text{ V}$	I_R	20	nA
Diode Capacitance at $V_R = 20 \text{ V}$, $f = 1 \text{ MHz}$	C_d	0.25	pF
Forward Resistance at $I_F = 0.5 \text{ mA}$, $f = 100 \text{ MHz}$ at $I_F = 1 \text{ mA}$, $f = 100 \text{ MHz}$ at $I_F = 10 \text{ mA}$, $f = 100 \text{ MHz}$ at $I_F = 100 \text{ mA}$, $f = 100 \text{ MHz}$	r_D	100 50 7 1.9	Ω

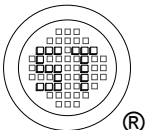




Forward resistance as a function of forward current; typical values.



Diode capacitance as a function of reverse voltage; typical values.

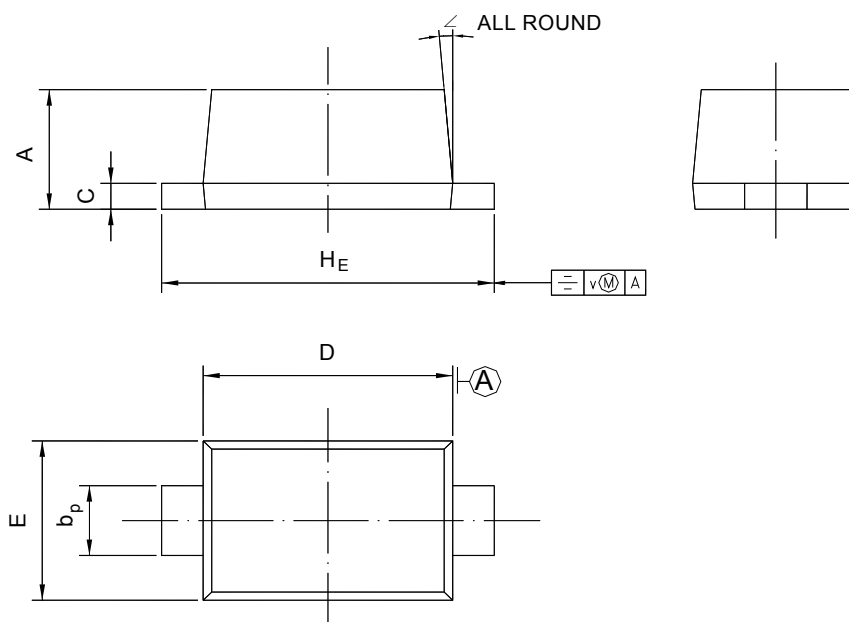


1PS70-02WT

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

