

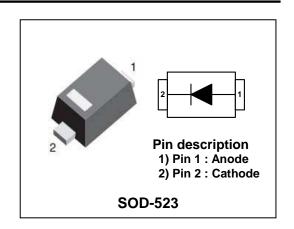
SDP510Q Pin Diode

Description

General purpose PIN diode in a SOD-523 small SMD plastic package.

Feature

- Low capacitance : C_T=0.25pF(Typ.)
- Low series resistance : $r_S=1.5\Omega(Typ.)$
- Full lead (Pb)-free and RoHS compliant device
- Available in Green EMC



Applications

- VHF tuner band RF attenuator
- AGC for FM tuner

Ordering Information

Device	Marking Code ¹⁾	Package	Packaging	
SDP510Q	<u>P2</u> □ ① ②	SOD-523	Tape & Reel	

^{*} Note 1): ① Device code, ② Year & Week code

Absolute Maximum Ratings (Ta=25°C, Unless otherwise specified)

Characteristic	Symbol	Ratings	Unit
Continuous reverse voltage	V _R	50	V
Forward current	I _F	50	mA
Junction temperature	TJ	150	°C
Storage temperature	T_{stg}	-55 ~ 150	°C

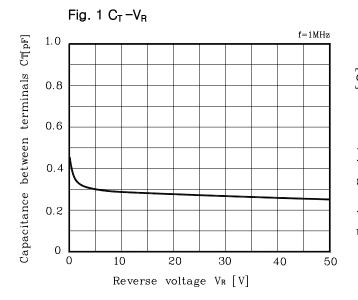
SDP510Q

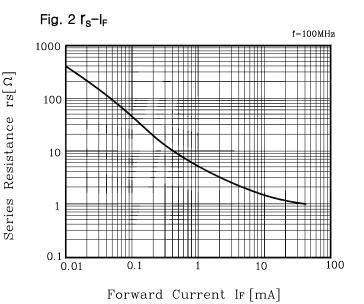
Electrical Characteristics (Ta=25 °C, Unless otherwise specified)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Reverse voltage	V _R	I _R =10μA	50	-	-	V
Reverse current	I _R	V _R =50V	-	-	0.1	μА
Forward voltage	V _F	I _F =50mA	-	0.95	-	V
Total capacitance	Ст	V _R =50V, f=1MHz	-	0.25	-	рF
Series resistance	r _S	I _F =10mA, f=100MHz	-	1.5	-	Ω

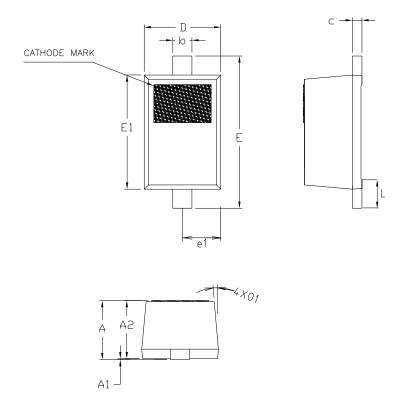
SDP510Q

Rating and Characteristic Curves



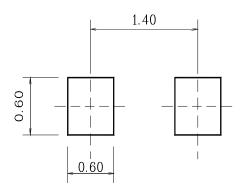


Package Outline Dimension



	MILLIMETERS			
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	NOTE
Α	0.60	0.70	0.80	
A1	0.00	_	0.10	
A2	0.50	0.60	0.70	
b	0.18	0.25	0.32	
С	0.08	0.12	0.16	
D	0.70	0.80	0.90	
Ε	1.50	1.60	1.70	
E1	1.10	1.20	1.30	
e1	0.40 BSC			
L	0.20	0.30	0.40	
0 1	4°	_	10°	

* Recommend PCB solder land [Unit:mm]



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