



SDP510D

Pin Diode

Features

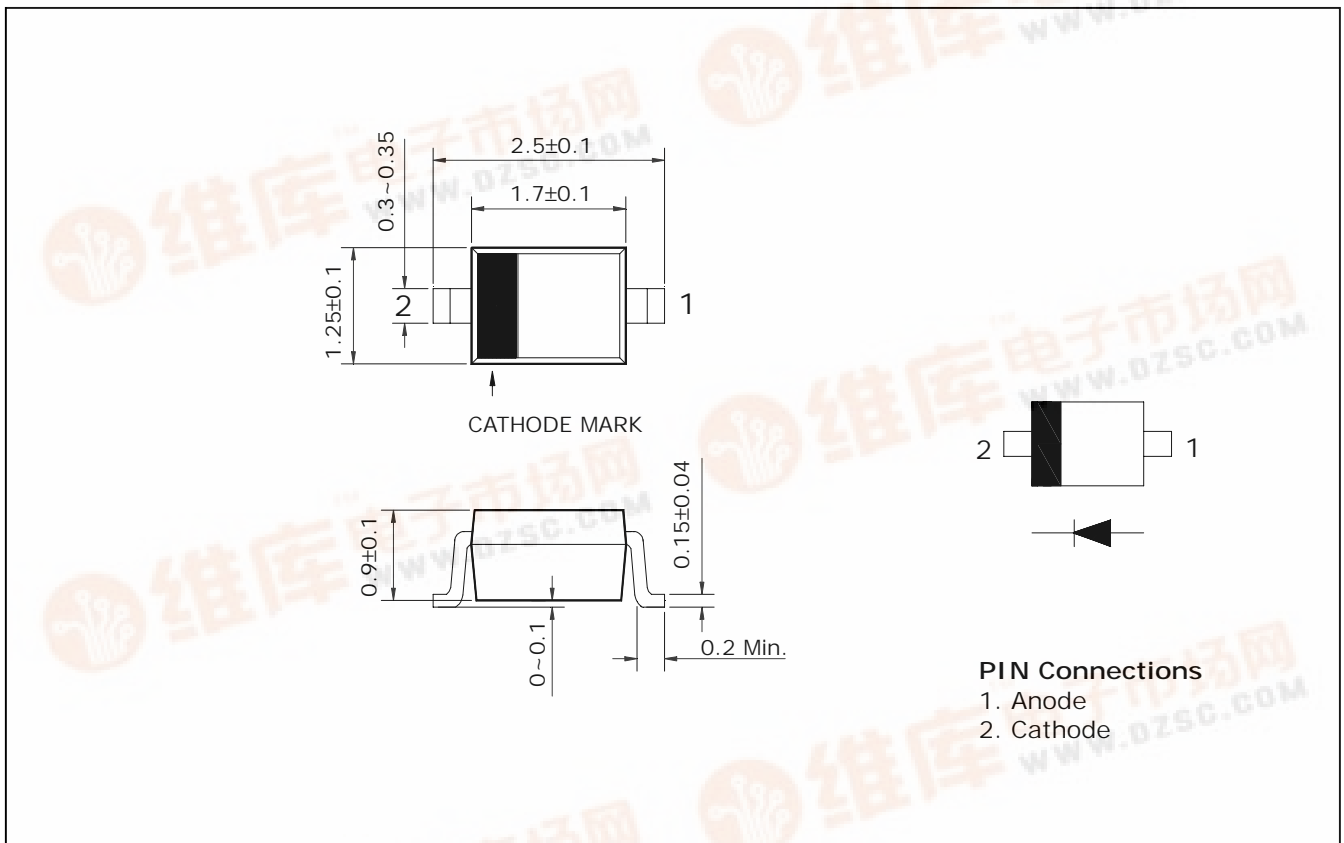
- SMD package : SOD-323
- Low capacitance : $C_T=0.25\text{pF(Typ.)}$
- Low series resistance : $r_s=1.5\Omega\text{(Typ.)}$
- VHF tuner band RF attenuator application
- AGC for FM tuner

Ordering Information

Type No.	Marking	Package Code
SDP510D	B3	SOD-323

Outline Dimensions

unit : mm



SDP510D

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Continuous reverse voltage	V _R	50	V
Forward current	I _F [*]	50	mA
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 ~ 150	°C

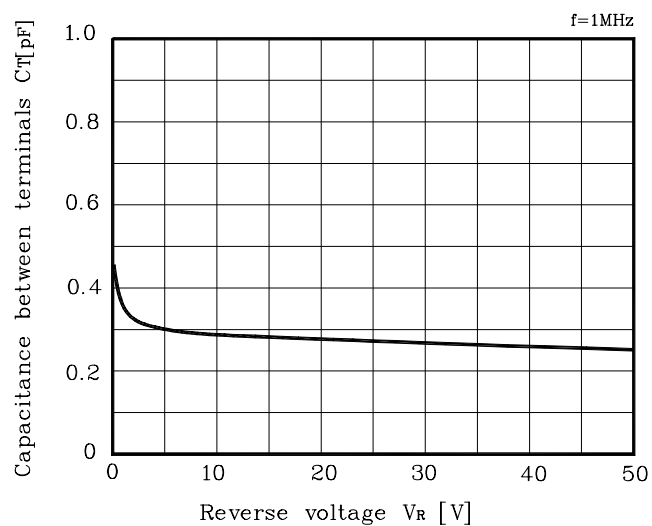
* : Unit ratings. Total rating = Unit rating × 1.5

Electrical Characteristics

Ta=25°C

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

Electrical Characteristic Curves

Fig. 1 C_T - V_R Fig. 2 r_s - I_F 