



# SDV703WK

Variable Capacitance Diode

## Descriptions

- For FM tuner
- Monolithic chip with common cathode for perfect tacking of both diodes
- Uniform "square law" characteristics
- Ideal hifi tuning device when used in low-distortion, back-to-back configuration

## Features

- Low series resistance  
:  $r_s = 0.3 \Omega$  (Typ.)

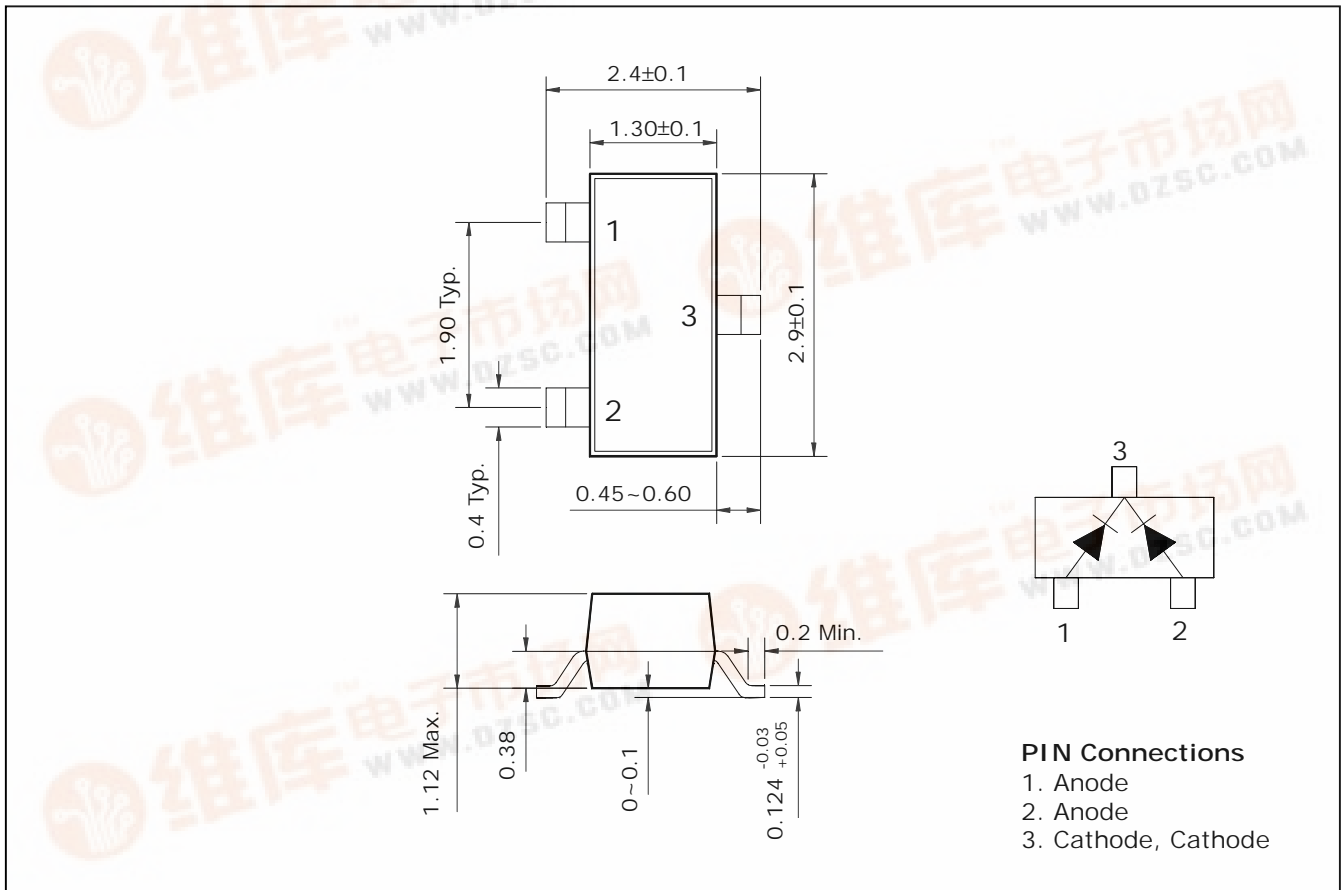
## Ordering Information

Type No.	Marking	Package Code
SDV703WK	DV3□	SOT-23

□ : C<sub>T2V</sub> rank (Grade)

## Outline Dimensions

unit : mm



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## Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Reverse voltage	$V_R$	15	V
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

## Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	$V_R$	$I_R=10\mu A$	15	-	-	V
Reverse current	$I_R$	$V_R=15V$	-	-	50	nA
Diode capacitance	$C_{T2V}^*$	$V_R=2V, f=1MHz$	42	-	47.5	pF
	$C_{T8V}$	$V_R=8V, f=1MHz$	24	-	28.8	pF
Capacitance ratio	$C_{T2V}/C_{T8V}$	-	1.65	1.71	1.8	-
Series resistance	$r_s$	$C_T=38pF, f=100MHz$	-	0.3	0.4	$\Omega$

\*:  $C_{T2V}$  / A : 42~43.5pF, B : 43~44.5pF, C : 44~45.5pF, D : 45~46.5pF, E : 46~47.5pF

Electrical Characteristic Curves

