VHF VARIABLE CAPACITANCE DIODE

The BB219 is a silicon variable capacitance diode in a hermetically sealed glass envelope (SOD-80) and intended for electronic tuning in VHF television tuners for C.A.T.V. applications. The SOD-80 envelope is suitable for surface mounting.

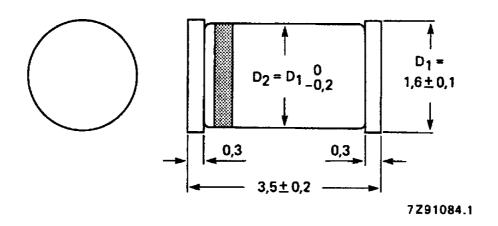
QUICK REFERENCE DATA

Reverse voltage, peak value	V _{RM}	max.	30 V
Reverse current VR = 28 V	IR	<	10 nA
Diode capacitance at f = 1 MHz	''N		יט ווא
V _R = 1 V V _R = 28 V	c _d	> 31 pF 2,6 to 3,2 pF	
Capacitance ratio at f = 1 MHz	$\frac{C_d(V_R = 1 V)}{C_d(V_R = 28 V)}$	12 to 15	
Series resistance at f = 100 MHz VR is that value at which Cd = 30 pF	r _s	typ. <	0,7 Ω 0,9 Ω

MECHANICAL DATA

Dimensions in mm

Fig. 1 SOD-80.



The cathode is indicated by a white band on the body.

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System (IEC 134)			
V _{RM}	max.	30	٧
IF	max.	20	mΑ
T _{stg}	-55 to +150 °C		οC
тј	max.	100	oC
R _{th j-a}	=	0,6	K/m\
	_		
l p	<u> </u>		nA
*11	_	200	nΑ
			_
-			pF
Cd	2,6 to 3,2 pF		
$\frac{C_d(V_R = 1 V)}{C_d(V_R = 28 V)}$	12 to 15		
	tvn.	0.7	Ω
r _S	<	0,9	
$\frac{\Delta C}{C}$	<	2,5	%
	V_{RM} I_{F} T_{stg} T_{j} $R_{th j-a}$ I_{R} C_{d} C_{d} $C_{d}(V_{R} = 1 V)$ $C_{d}(V_{R} = 28 V)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$