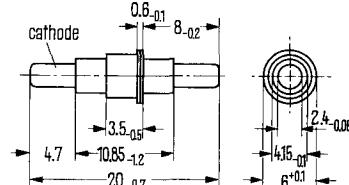


Depletion-layer varactors

BXY 21 CA is an epitaxial silicon mesa diode in a ceramic case. It is suitable for use as frequency converter and mixer in the GHz range.

Type	Order number
BXY 21 CA	Q62702-X54



Weight approx. 1.4 g Dimensions in mm

Maximum ratings ($T_{amb}=25\text{ }^{\circ}\text{C}$)

	BXY 21 CA	
Reverse voltage	20	V
Junction temperature	150	$^{\circ}\text{C}$
Storage temperature	-55 to +150	$^{\circ}\text{C}$
Power dissipation	1.2	W
Thermal resistance		
Junction to case	≤ 70	K/W

Static characteristics ($T_{amb}=25\text{ }^{\circ}\text{C}$)

Forward voltage ($I_F=100\text{ mA}$)	V_F	≤ 1.1	V
Reverse current ($V_R=15\text{ V}$)	I_R	≤ 5	nA
Breakdown voltage ($I_R=10\text{ }\mu\text{A}$)	V_{BR}	30 (> 20)	V

Dynamic characteristics ($T_{amb}=25\text{ }^{\circ}\text{C}$)

Diode capacitance ($V_R=0\text{ V}; f=1\text{ MHz}$)	C_D	2 (1.5 to 2.5)	pf
Case capacitance	C_{case}	0.85	pf
Series inductance	L_s	2	nH
Series resistance ($V_R=20\text{ V}; f=2.4\text{ GHz}$)	R_s	0.5 (< 0.8)	Ω