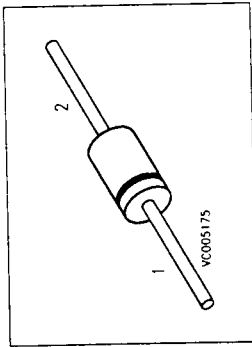


Silicon PIN Diode

- Current-controlled RF resistor for switching and attenuating applications
- Frequency range 1 MHz ... 1 GHz
- Not for new design

BA 389



Type	Marking	Ordering Code	Pin Configuration	Package ¹⁾
BA 389	yellow	Q62702-A732		DO-35 DHD

Maximum Ratings

Parameter	Symbol	Values	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	50	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{sig}	- 65 ... + 150	

Thermal Resistance

Junction - ambient	R_{thJA}	≤ 400	K/W
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Electrical Characteristics

at $T_A = 25\text{ °C}$, unless otherwise specified.

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
Forward voltage $I_F = 50\text{ mA}$	V_F	-	-	1	V
Reverse current $V_R = 30\text{ V}$	I_R	-	-	50	nA
Diode capacitance $V_R = 10\text{ V}, f = 1\text{ MHz}$ $V_R = 0\text{ V}, f = 100\text{ MHz}$	C_T	-	0.55 0.35	- 0.5	pF
Forward resistance $f = 100\text{ MHz}$ $I_F = 1.5\text{ mA}$ $I_F = 10\text{ mA}$	r_f	-	25 5	40 7.5	Ω
Zero bias conductance $V_R = 0\text{ V}, f = 100\text{ MHz}$	g_0	-	70	-	μS
Series inductance	L_s	-	2.5	-	nH

¹⁾ For detailed information see chapter Package Outlines.