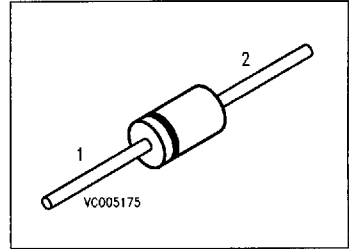


Silicon RF Switching Diodes

BA 282
BA 283

- For low-loss VHF band switching in TV tuners
- Not for new design



Type	Marking	Ordering Code	Pin Configuration	Package ¹⁾
BA 282	yellow	Q62702-A428		DO-35 DHD
BA 283		Q62702-A429		

Maximum Ratings

Parameter	Symbol	Values	Unit
Reverse voltage	V_R	35	V
Forward current, $T_A \leq 60^\circ\text{C}$	I_F	100	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	- 55 ... + 150	

Thermal Resistance

Junction - ambient	$R_{\text{th JA}}$	≤ 400	K/W
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¹⁾ For detailed information see chapter Package Outlines.

Electrical Characteristics

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

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
Forward voltage $I_F = 100\text{ mA}$	V_F	–	–	1	V
Reverse current $V_R = 20\text{ V}$	I_R	–	–	50	nA
Diode capacitance $f = 1\text{ MHz}$ BA 282: $V_R = 1\text{ V}$ $V_R = 3\text{ V}$ BA 283: $V_R = 1\text{ V}$ $V_R = 3\text{ V}$	C_T	–	–	1.5 1.2 1.5 1	pF
Forward resistance $f = 100\text{ MHz}$ BA 282: $I_F = 3\text{ mA}$ $I_F = 10\text{ mA}$ BA 283: $I_F = 3\text{ mA}$ $I_F = 10\text{ mA}$	r_f	–	–	0.7 0.5 1.2 0.9	Ω
Reverse resistance $V_R = 1\text{ V}, f = 100\text{ MHz}$	$1/g_p$	–	100	–	k Ω
Series inductance	L_s	–	2.5	–	nH