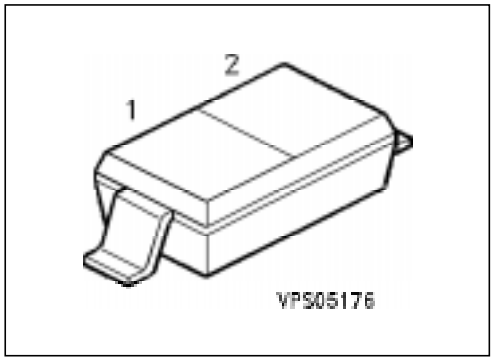
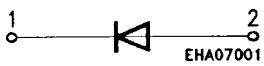
SIEMENS

Silicon RF Switching Diode

BA 582

- For low-loss VHF band switching in TV/VTR tuners



Type	Marking	Ordering Code	Pin Configuration	Package[1)]
BA 582	blue S	Q62702-A829		SOD-123

Maximum Ratings

Parameter	Symbol	Values	Unit
Reverse voltage	V_R	35	V
Forward current, $T_A \leq 60$ ˚C	I_F	100	mA
Operation temperature range	T_{op}	– 55 … + 125	˚C
Storage temperature range	T_{stg}	– 55 … + 150	

Thermal Resistance

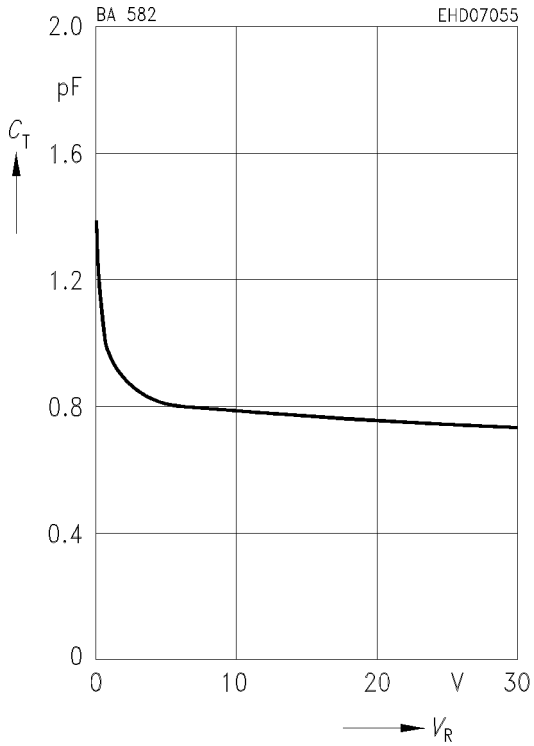
Junction - ambient	$R_{th\ JA}$	≤ 600	K/W

1) For detailed information see chapter Package Outlines.

Electrical Characteristics
at T_A = 25 °C, unless otherwise specified.

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
Forward voltage I_F = 100 mA	V_F	–	–	1	V
Reverse current V_R = 20 V	I_R	–	–	20	nA
Diode capacitance f = 1 MHz V_R = 1 V V_R = 3 V	C_T	 – 0.6	 0.92 0.85	 1.4 1.1	pF
Forward resistance f = 100 MHz I_F = 3 mA I_F = 10 mA	r_f	 – –	 0.45 0.38	 0.7 0.5	Ω
Reverse resistance V_R = 1 V, f = 100 MHz	$1/g_p$	–	100	–	kΩ
Series inductance	L_S	–	2.8	–	nH

Diode capacitance $C_T = f(V_R)$
f= 1 MHz



Forward resistance $r_f = f(I_F)$
f= 100 MHz