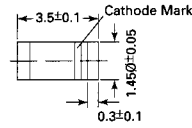


BA682, BA683

Silicon Epitaxial Planar Diode Switches

In MiniMELF case especially suited for automatic insertion for electronic band-switching in radio and TV tuners in the frequency range of 50 ... 1000 MHz. The dynamic forward resistance is constant and very small over a wide range of frequency and forward current. The reverse capacitance is also small and largely independent of the reverse voltage.

These diodes are delivered taped.
Details see "Taping".

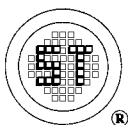


Glass case MiniMELF

Weight approx. 0.05g
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

	Symbol	Value	Unit
Reverse Voltage	V_R	35	V
Forward Current at $T_{amb} = 25\text{ }^\circ\text{C}$	I_F	100	mA
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_S	-55 to + 150	$^\circ\text{C}$



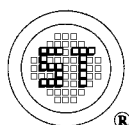
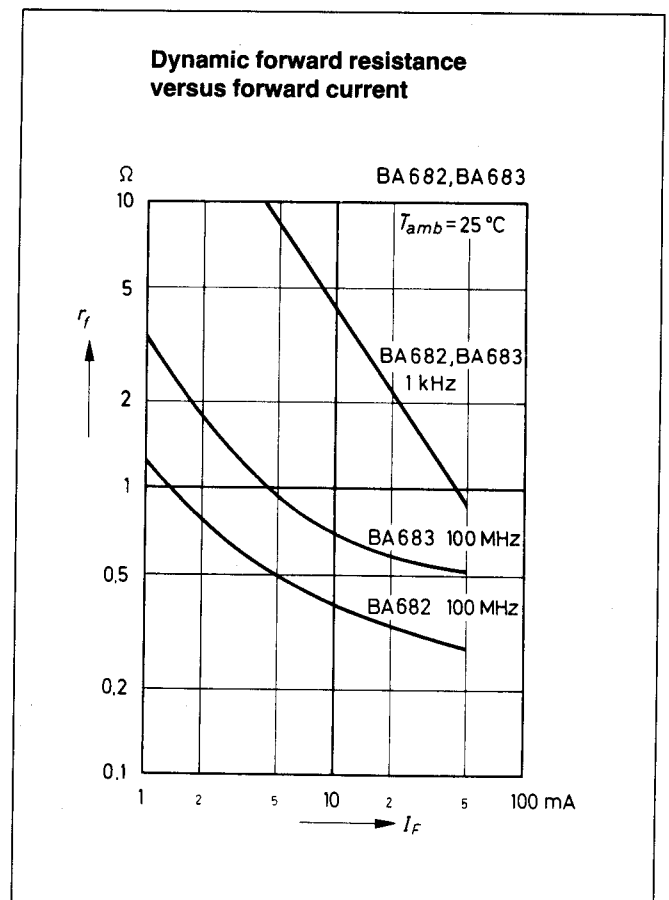
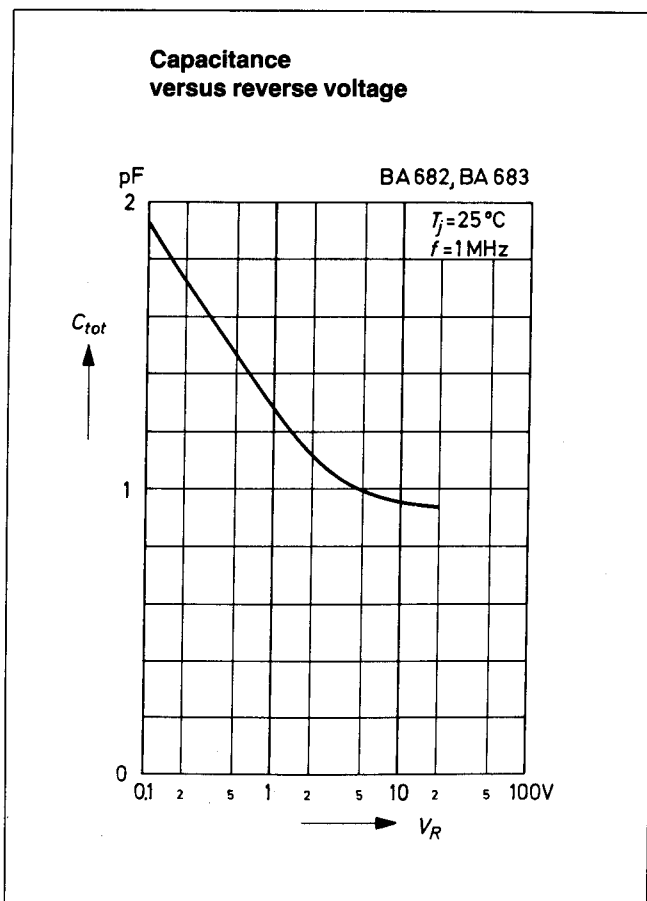
SEMTECH ELECTRONICS LTD.
(wholly owned subsidiary of HONEY TECHNOLOGY LTD.)



BA682, BA683

Characteristics at $T_{amb} = 25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	V_F	-	-	1	V
Leakage Current at $V_R = 20\text{ V}$	I_R	-	-	50	nA
Dynamic Forward Resistance at $f = 50\text{ to }1000\text{ MHz}$, $I_F = 3\text{ mA}$	BA682 r_f	-	-	0.7	Ω
	BA683 r_f	-	-	1.2	Ω
	BA682 r_f	-	-	0.5	Ω
	BA683 r_f	-	-	0.9	Ω
Capacitance at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$	C_{tot}	-	-	1.5	pF
	BA682 C_{tot}	-	-	1.25	pF
	BA683 C_{tot}	-	-	1.2	pF
Series Inductance	L_s	-	2	-	nH



SEMTECH ELECTRONICS LTD.
(wholly owned subsidiary of HONEY TECHNOLOGY LTD.)

