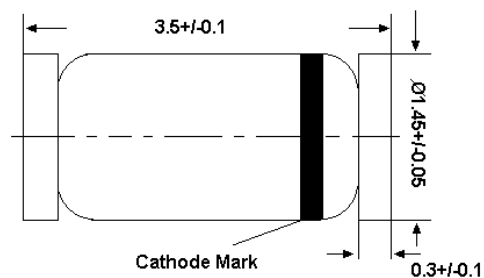


BA682, BA683

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 to 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.



**Glass case MiniMELF
Dimensions in mm**

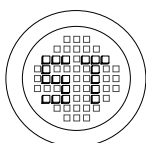
These diodes are delivered taped.
Details see "Taping".

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

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

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

	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 $f = 50$ to 1000 MHz, $I_F = 3\text{mA}$	BA682	r_f	-	-	0.7	Ω	
	BA683	r_f	-	-	1.2	Ω	
	at $f = 50$ to 1000 MHz, $I_F = 10\text{mA}$	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 across Case	L_S	-	2	-	nH		

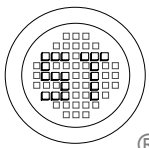
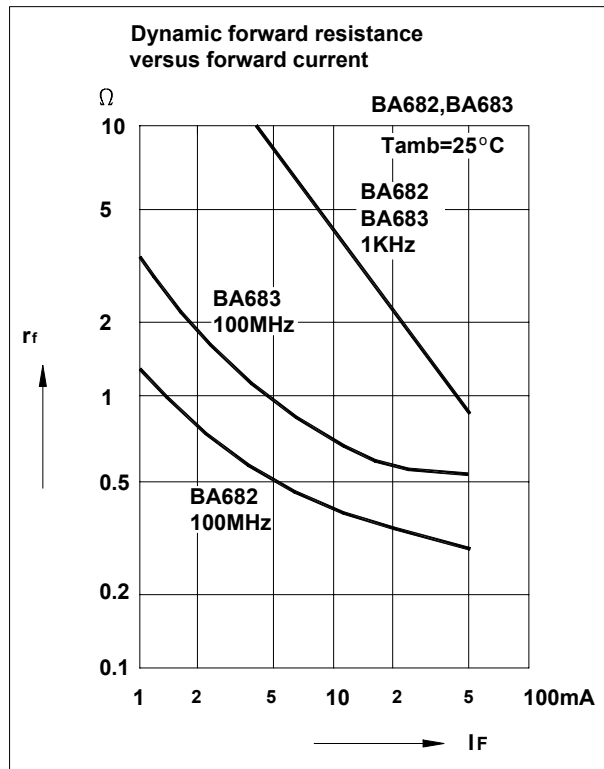
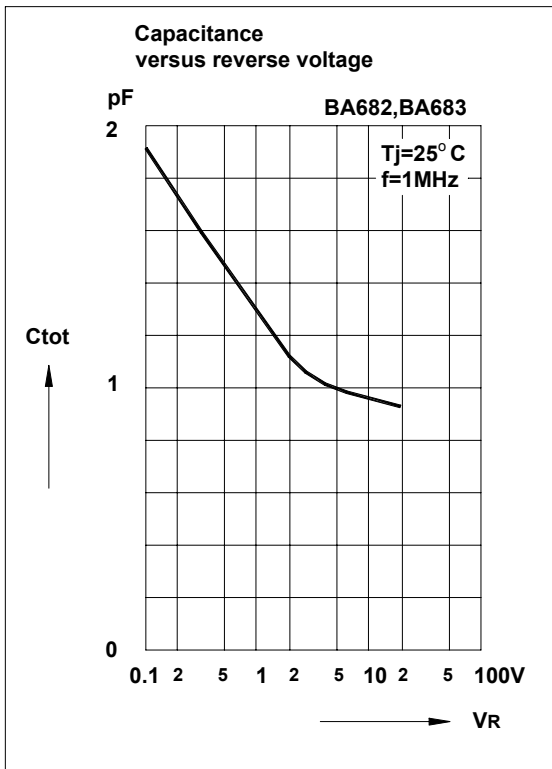


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РАДИОТЕХ

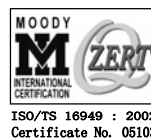
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BA682, BA683



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 20/06/2003