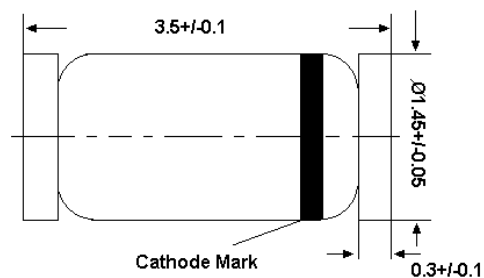


# BA682, BA683

## 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**

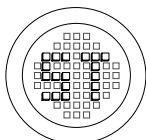
These diodes are delivered taped.  
Details see "Taping".

### 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, $I_F = 3\text{mA}$	$r_f$	-	-	0.7	$\Omega$
at $f = 50$ to $1000$ MHz, $I_F = 10\text{mA}$	$r_f$	-	-	0.5	$\Omega$
Capacitance at $V_R = 1\text{V}$ , $f = 1\text{MHz}$	$C_{tot}$	-	-	1.5	pF
at $V_R = 3\text{V}$ , $f = 1\text{MHz}$	$C_{tot}$	-	-	1.25	pF
Series Inductance across Case	$L_S$	-	2	-	nH

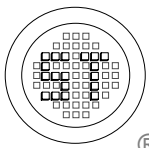
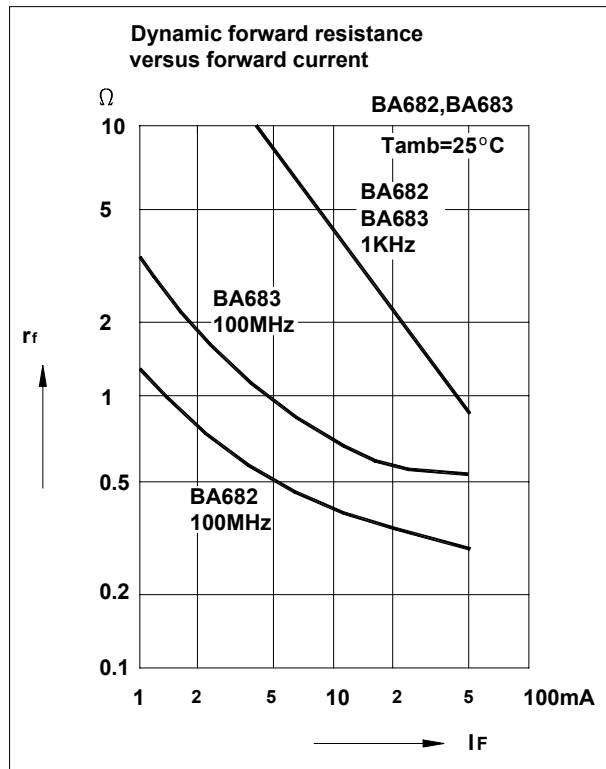
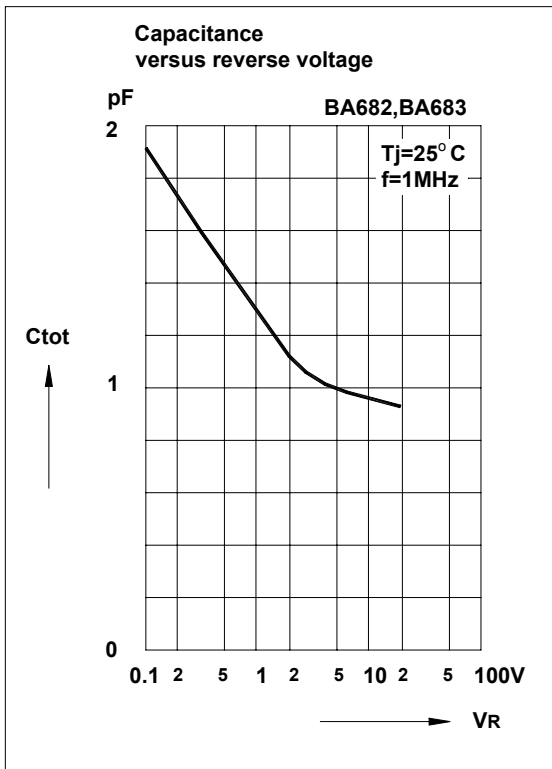


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**РАДИОТЕХ-ТРЕЙД**

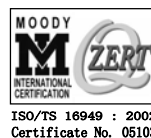
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## SEMTECH ELECTRONICS LTD.

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



Dated : 20/06/2003