

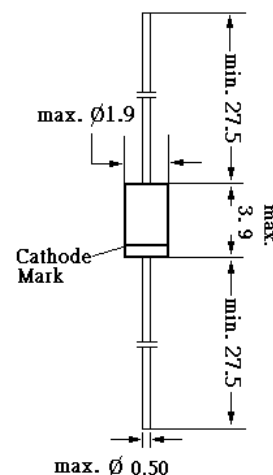
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SILICON EPITAXIAL PLANAR DIODE SWITCHES

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.

These diodes are delivered taped.

Details see "Taping".



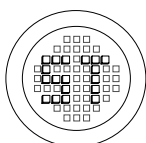
Glass case JEDEC DO-35
Dimensions in mm

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	Ω
at $f = 50$ to 1000 MHz, $I_F = 10\text{mA}$	r_f	-	-	0.5	Ω
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	-	2.5	-	nH

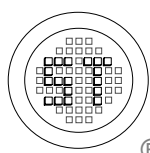
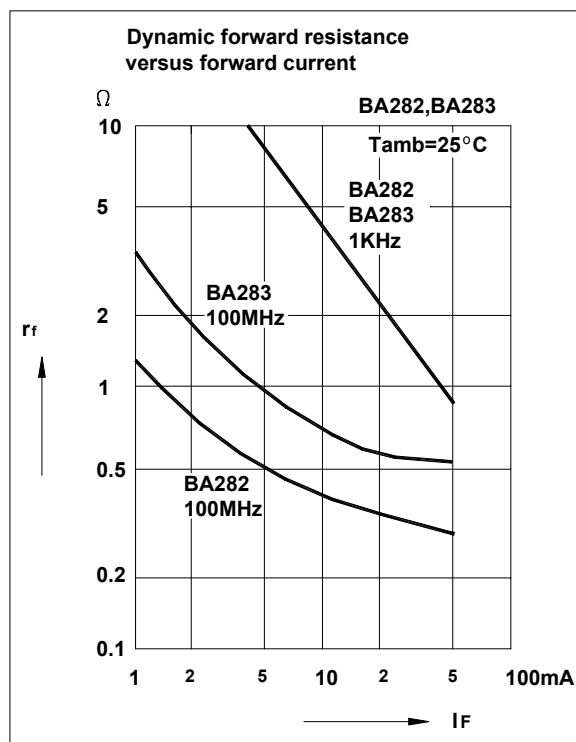
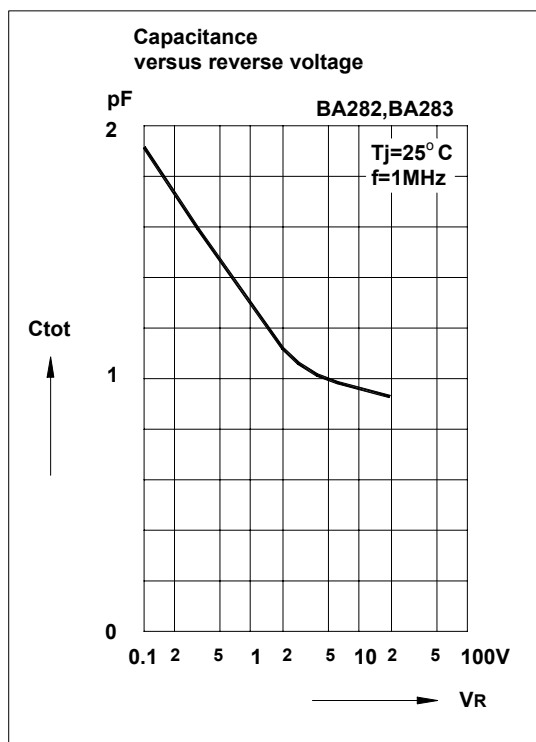


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SEMTECH ELECTRONICS LTD.

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Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 550-1559-04-002-04

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