

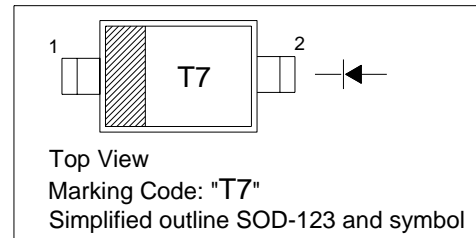
BB619ST

SILICON VARIABLE CAPACITANCE DIODE

For tuning of extended frequency bands
in VHF TV/VTR tuners

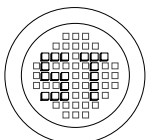
PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	30	V
Reverse voltage($R \geq 5\text{k}\Omega$)	V_{RM}	35	V
Forward current	I_F	20	mA
Operating temperature range	T_{op}	-55...+150	?
Storage temperature	T_{stg}	-55 ... +150	?
Junction- ambient	R_{thJA}	? 450	K/W



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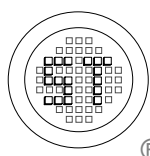
РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

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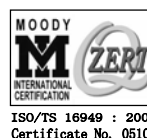
Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse current	I_R	- -	- -	10 200	nA	$V_R = 30V$ $V_R = 30V, T_a = 85^\circ C$
Diode capacitance	C_T	36 2.4	38.7 2.6	42 2.9	pF	$V_R = 1V, f = 1MHz$ $V_R = 28V, f = 1MHz$
Capacitance ratio	C_{T1} / C_{T28}	13.5	14.9	-	-	$V_R = 1V, V_R = 28V, f = 1MHz$
Capacitance matching	$\Delta C_T / C_T$	-	-	2.5	%	$V_R = 1V, V_R = 28V, f = 1MHz,$
Series resistance	r_s	-	0.6	-	Ω	$C_T = 12pF, f = 100MHz$
Series inductance	L_s	-	2	-	nH	-



SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



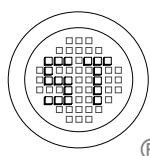
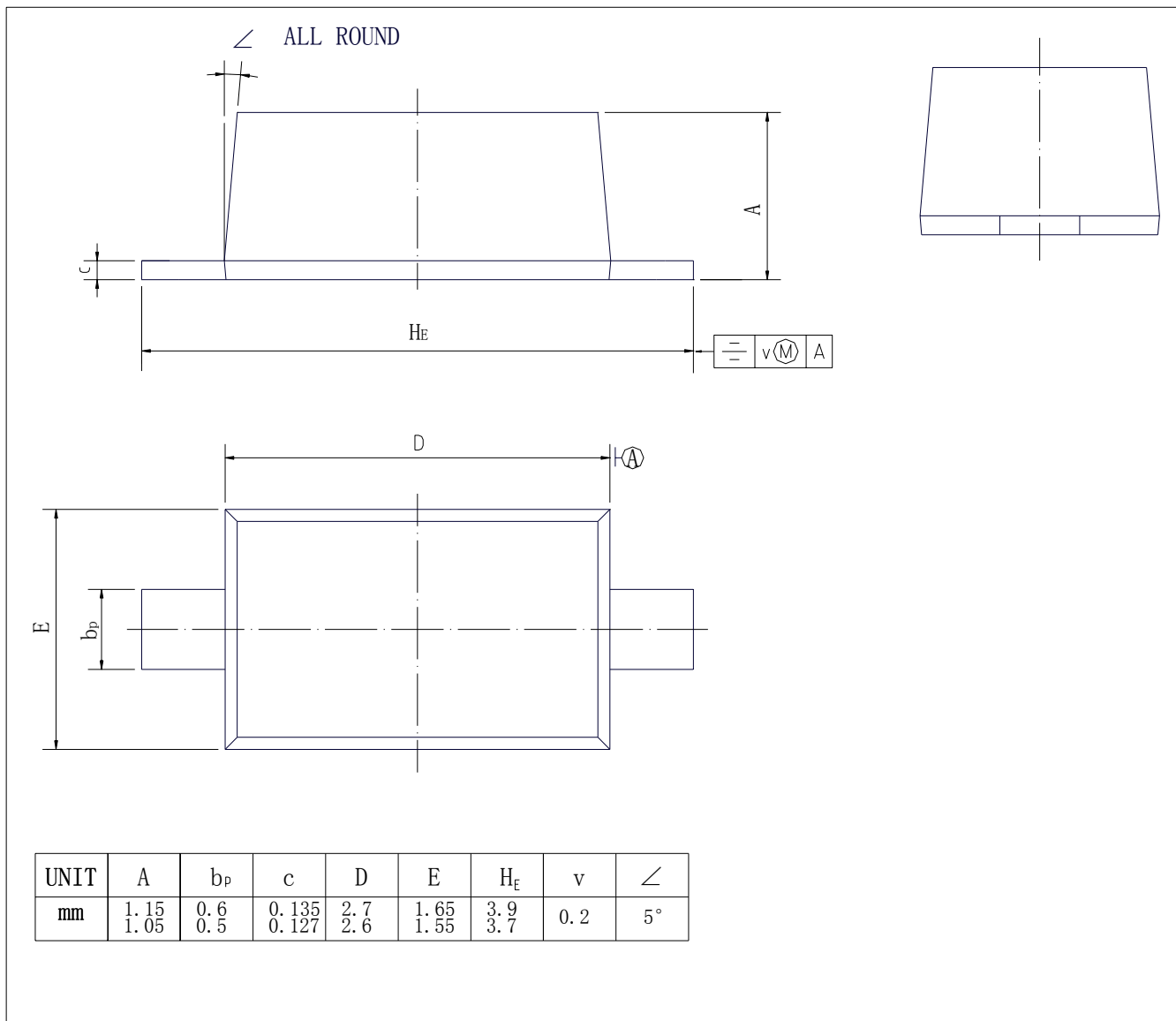
ISO 9001 : 2000
Certificate No. 039-109-0102-01

Dated : 08/07/2004

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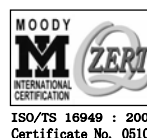
PACKAGE OUTLINE

SOD-123



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