



**THE DATASHEET OF
SMS7621-096**



Silicon Schottky Diodes

High performance and high reliability RF and microwave Schottky diodes for your demanding mixer and detector applications



New 0201 Surface Mount Silicon — for Mixer Detectors Through K Band

.50 x .25 x .30 mm.

Part Number	$V_B @ 10 \mu A$ (V)	$C_T @ 0.15 V$ (pF)	$C_T @ 0 V$ (pF)	$V_F @ 1.0 mA$ (mV)	R_S (Ω)	$V_R @ 0 V$ (Ω)
	Min.	Typ.	Max.	Min.–Max.	Max.	Min.–Max.
SMS7630-093 Zero bias, detector applications	1	0.3	–	135–240	–	3000–7000
SMS7621-096 Low barrier, sensitive detector and mixer circuits	2	–	0.18	260–320	12	–

Beam-Lead, Epoxy and Hermetic Packaged — Single, N-Type, Low, Medium, High Drive

Frequency Band	C_J 0 V, 1 MHz (pF)		R_S 5 mA (Ω)	V_B 10 μA (V)	V_F 1 mA (mV)		Drive Level	Part Number (-XXX)	Beam Lead (-000)	Epoxy Package		Hermetic Package (-220)
	Min.	Max.	Max.	Min.	Min.	Max.				(-250)	(-230)	
S	0.30	0.50	5	2	200	260	Low	DMF2820	•	•		•
				3	300	400	Med	DME2127	•	•		•
				4	500	600	High	DMJ2823	•	•		•
X	0.15	0.30	8	2	250	310	Low	DMF2821	•	•		•
				3	325	425	Med	DME2957	•	•		•
				4	550	650	High	DMJ2777	•	•		•
KU	0.05	0.15	13	2	260	330	Low	DMF2344	•	•	•	•
				3	350	450	Med	DME2333	•	•	•	•
				4	500	680	High	DMJ2824	•	•	•	•
K	–	0.10	18	2	270	350	Low	DMF2822	•		•	•
				3	375	550	Med	DME2458	•		•	•
				4	600	700	High	DMJ2825	•		•	•



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