MA27V16

Silicon epitaxial planar type

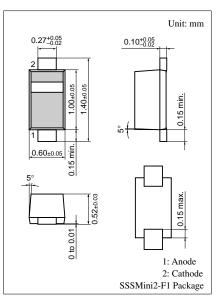
For VCO

Features

- \bullet Good linearity and large capacitance-ratio in C_D V_R relation
- \bullet Small series resistance $r_{\rm D}$

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V _R	6	V
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



Marking Symbol: K

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_R = 5 V$			10	nA
Diode capacitance	C _{D(1V)}	$V_R = 1 V, f = 1 MHz$	17.45		18.95	pF
	C _{D(3V)}	$V_R = 3 V, f = 1 MHz$	7.73		8.37	
Capacitance ratio	C _{D(1V)} /C _{D(3V)}		2.17		2.35	
Series resistance *	r _D	$V_R = 3 V, f = 470 MHz$			0.30	Ω

Note) 1. Rated input/output frequency: 470 MHz

2. *: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

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