MA27V20

Silicon epitaxial planar type

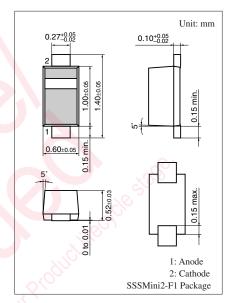
For VCO

■ Features

- \bullet Good linearity and large capacitance-ratio in $C_D V_R$ relation
- Small series resistance r_D

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V_R	6	V	
Junction temperature	T _j	125	°C	
Storage temperature	T_{stg}	-55 to +125	°C	



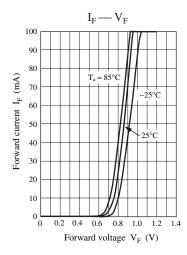
Marking Symbol: T

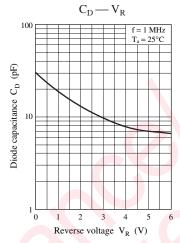
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

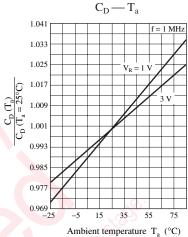
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	I_R	$V_R = 5 \text{ V}$	100	0,,	10	nA
Diode capacitance	$C_{D(1V)}$	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$	18.0	5-	19.5	pF
	$C_{D(3V)}$	$V_R = 3 \text{ V, } f = 1 \text{ MHz}$	9.20		9.90	
Capacitance ratio	$C_{D(1V)}/C_{D(3V)}$	95: 67: 10	1.89		2.04	_
Series resistance *	r _D	$V_R = 3 \text{ V, f} = 470 \text{ MHz}$			0.35	Ω

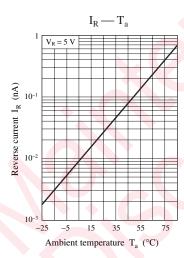
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 2. Absolute frequency of input and output is 470 MHz
- 3. *: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER









2 SKD00091AED

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