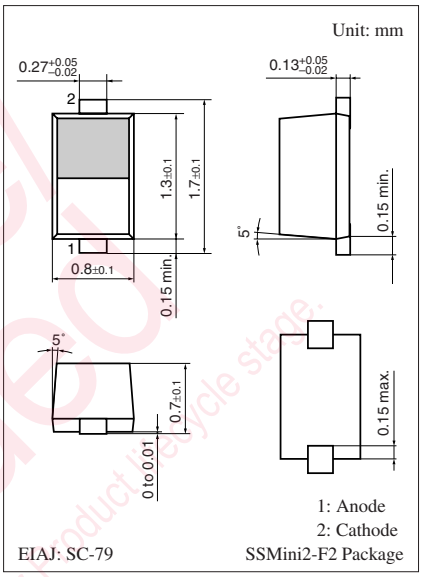
MA2S304

Silicon epitaxial planar type

For VCO

■ Features

- Good linearity and large capacitance-ratio in $C_D - V_R$ relation
- Small series resistance r_D
- SS-Mini type package, allowing downsizing of equipment and automatic insertion through the taping package



Marking Symbol: K

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

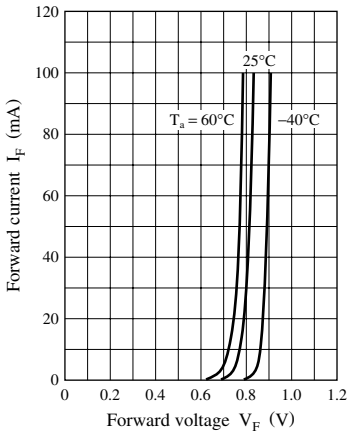
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	I_R	V_R = 28 V			10	nA
Diode capacitance	$C_{D(1V)}$	V_R = 1 V, f = 1 MHz	24.8		29.8	pF
	$C_{D(4V)}$	V_R = 4 V, f = 1 MHz	6.0		8.3	
Capacitance ratio	$C_{D(1V)}/C_{D(4V)}$		3.0			—
Series resistance *	r_D	V_R = 4 V, f = 100 MHz			1.0	Ω

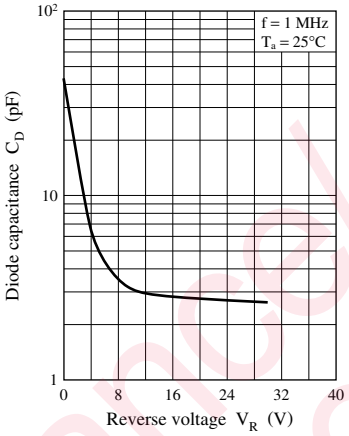
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. Absolute frequency of input and output is 100 MHz.
3. *: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

Maintenance/Discontinued
This product includes following four product lifecycle stage.
planned maintenance type
maintenance type
discontinued typed
discontinued type
Please visit following URL about latest information.
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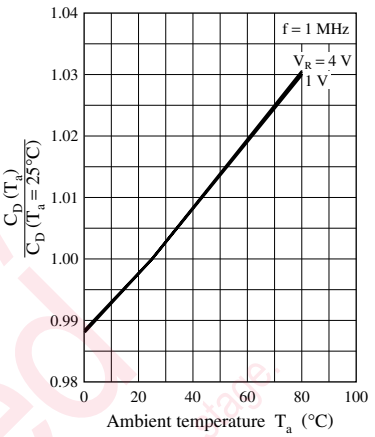
I_F — V_F



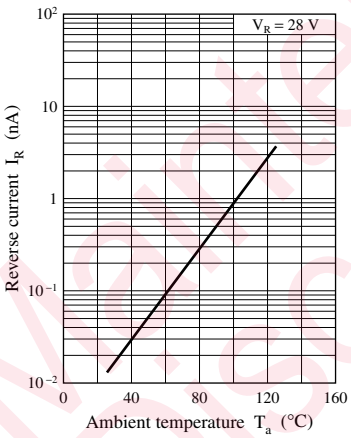
C_D — V_R



C_D — T_a



I_R — T_a



Maintenance/Discontinued
Discontinued includes following four Product lifecycle stage.
planed maintenance type
maintenance type
planed discontinued type
discontinued type
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