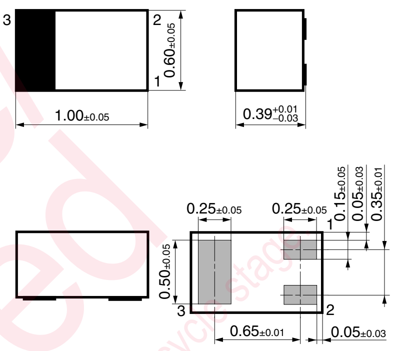
MA26V01

Silicon epitaxial planar type

For VCO

Unit: mm



1: Anode
2: N.C.
3: Cathode
ML3-N2 Package

Marking Symbol: 2D

■ Features

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

■ Absolute Maximum Ratings $T_a = 25°C$

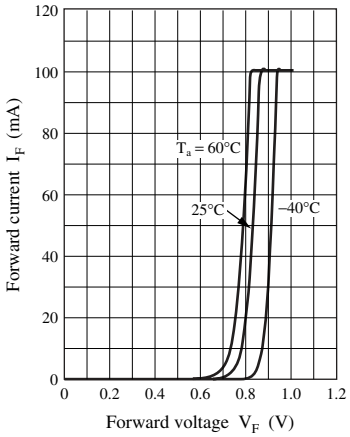
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	6	V
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55 to +125	°C

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

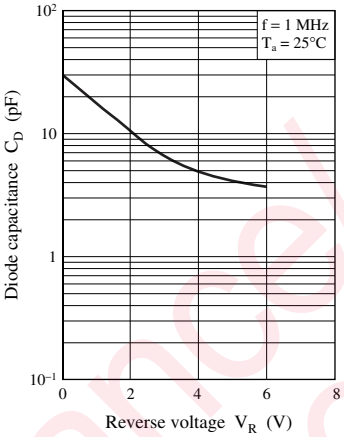
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	I_R	$V_R = 6$ V			10	nA
Diode capacitance	C_{D1V}	$V_R = 1$ V, f = 1 MHz	15.0		17.0	pF
	C_{D3V}	$V_R = 3$ V, f = 1 MHz	5.0		7.0	
Capacitance ratio	C_{D1V}/C_{D3V}		2.2			—
Series resistance *	r_D	$C_D = 9$ pF, f = 470 MHz			1.0	Ω

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 470 MHz.
3. *: Measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER

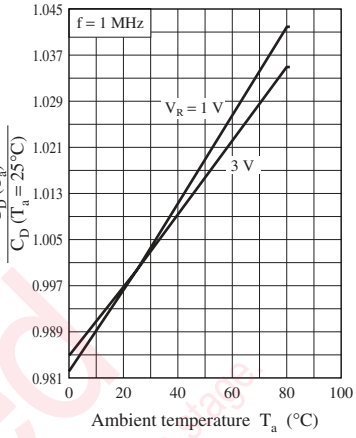
I_F — V_F



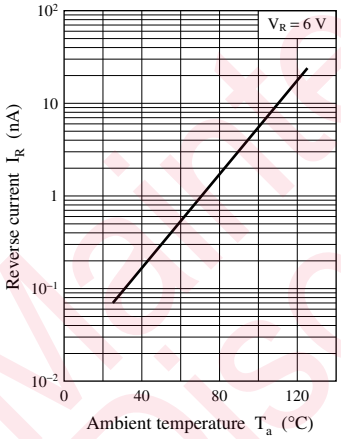
C_D — V_R



C_D — T_a



I_R — T_a



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