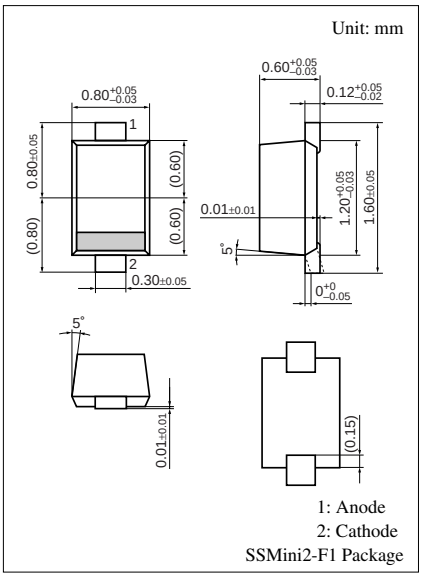
MA2SP02

Silicon epitaxial planar type

For high frequency switch



Marking Symbol: 3P

■ Features

- Low terminal capacitance: $C_t \leq 0.5$ pF
- Low forward dynamic resistance: $r_f \leq 2.0\ \Omega$
- Miniature package and surface mounting type

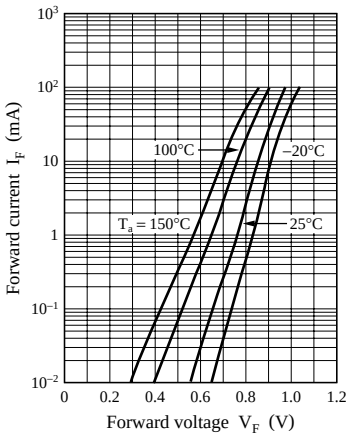
■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	60	V
Forward current (DC)	I_F	100	mA
Power dissipation	P_D	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

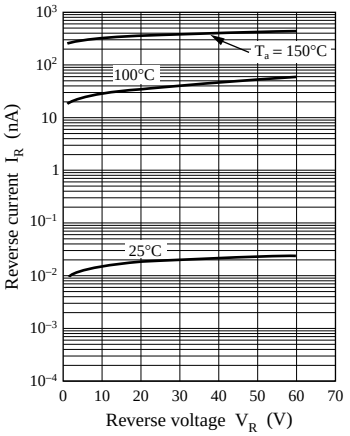
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 60$ V			100	nA
Forward voltage (DC)	V_F	$I_F = 10$ mA			1.0	V
Terminal capacitance	C_t	$V_R = 1$ V, f = 1 MHz			0.5	pF
Forward dynamic resistance	r_f	$I_F = 10$ mA, f = 100 MHz			2.0	Ω

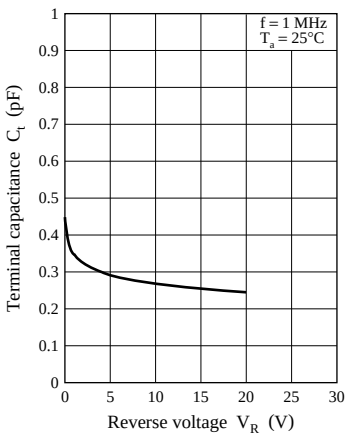
I_F — V_F



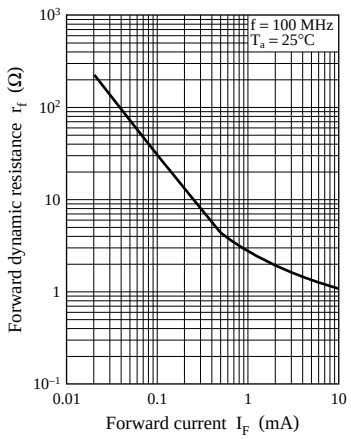
I_R — V_R



C_t — V_R



r_f — I_F



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