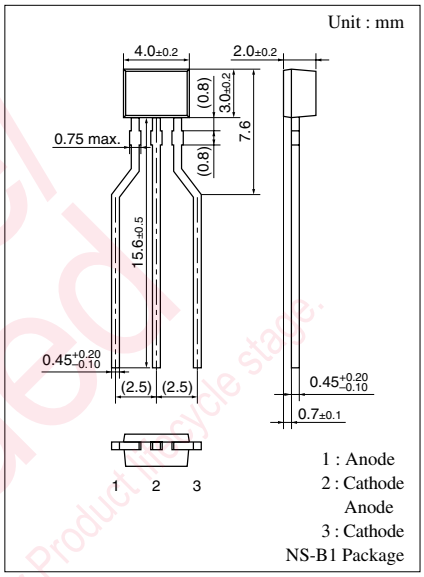
MA3V177 (MA177)

Silicon epitaxial planar type

For switching circuits



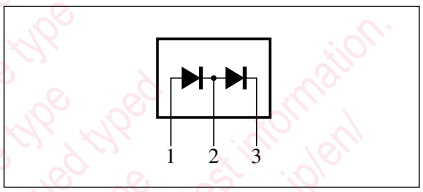
■ Features

- Small terminal capacitance, C_t
- Can be connected in series

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	40	V
Peak reverse voltage	V_{RM}	40	V
Forward current (DC)	I_F	100	mA
Peak forward current	I_{FM}	200	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

Internal Connection



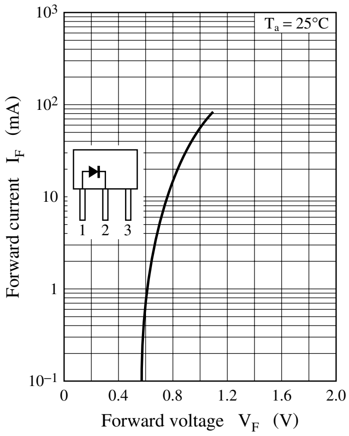
■ Electrical Characteristics $T_a = 25°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	V_R = 40 V			0.1	µA
Forward voltage (DC)	V_F	I_F = 100 mA			1.2	V
Reverse voltage (DC)	V_R	I_R = 100 µA	40			V
Terminal capacitance	C_{t1} *1	V_R = 0 V, f = 1 MHz			5.5	pF
	C_{t2} *2				3.0	

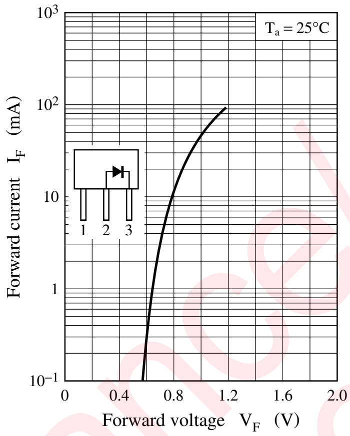
Note) 1. Rated input/output frequency: 100 MHz
2. *1 : Between pins 3 and 2
*2 : Between pins 2 and 1

Note) The part number in the parenthesis shows conventional part number.

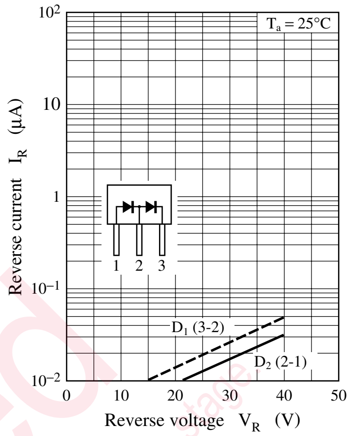
I_F — V_F



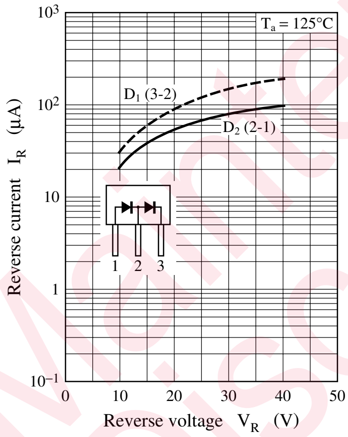
I_F — V_F



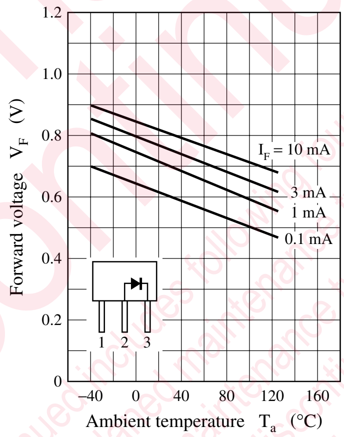
I_R — V_R



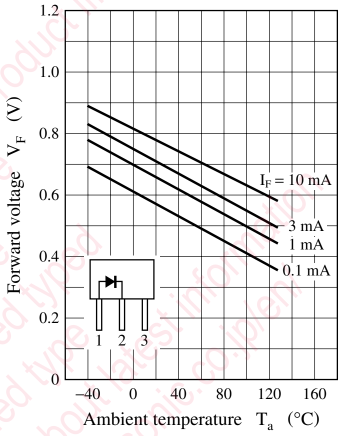
I_R — V_R



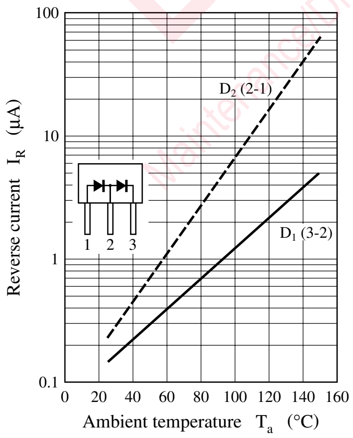
V_F — T_a



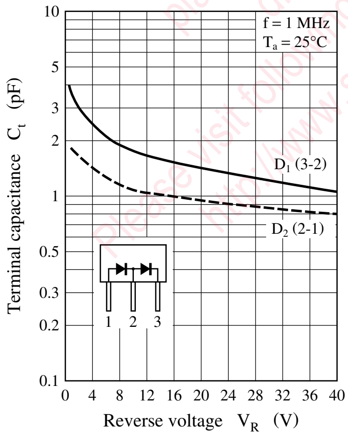
V_F — T_a



I_R — T_a



C_t — V_R



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