

MA3V177 (MA177)

Silicon epitaxial planar type

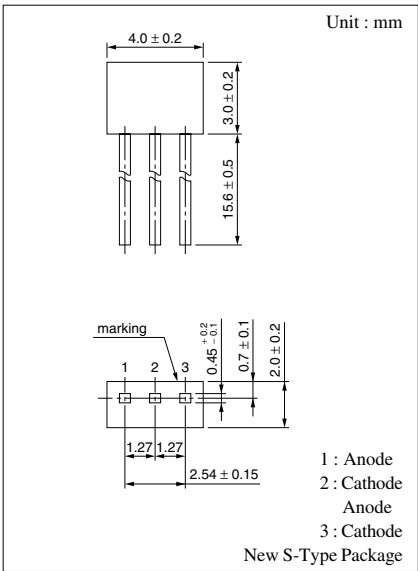
For switching circuits

■ Features

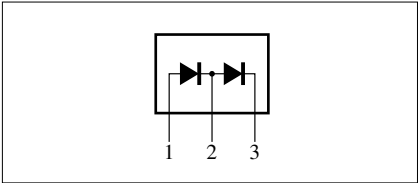
- Small terminal capacitance, C_t
- Can be connected in series

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Internal Connection



■ Electrical Characteristics $T_a = 25^\circ\text{C}$

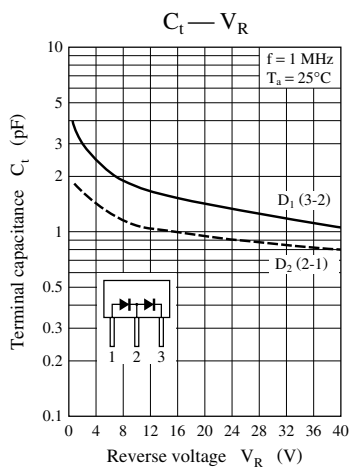
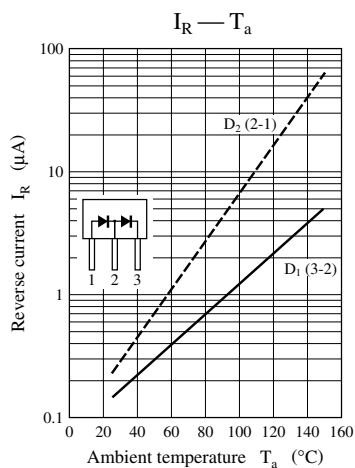
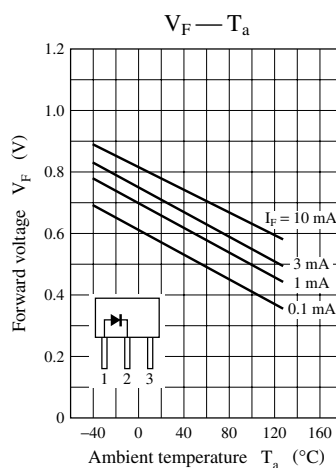
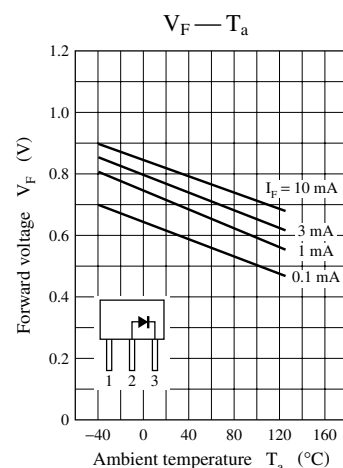
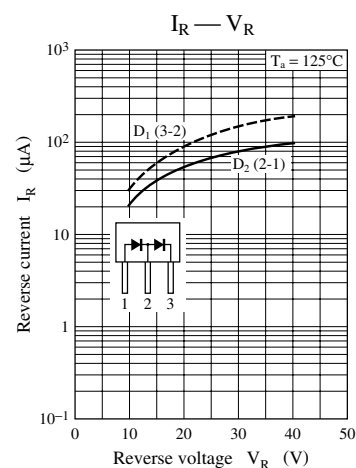
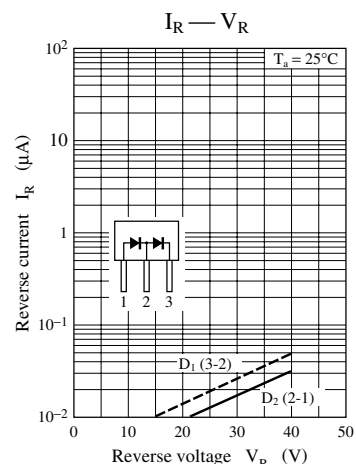
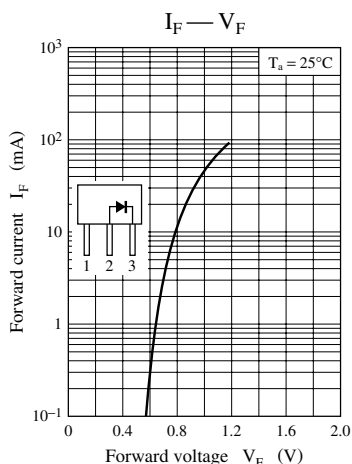
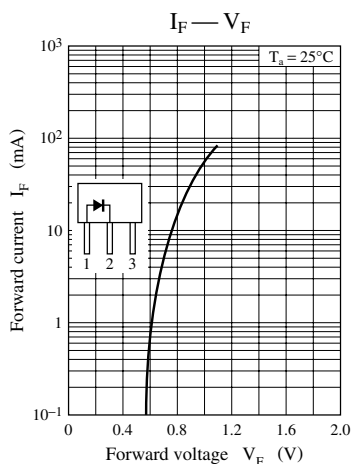
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 40\text{ V}$			0.1	μA
Forward voltage (DC)	V_F	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\text{ }\mu\text{A}$	40			V
Terminal capacitance	C_{t1}^{*1}	$V_R = 0\text{ V}, f = 1\text{ MHz}$			5.5	pF
	C_{t2}^{*2}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



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