

MA177

Silicon epitaxial planer type

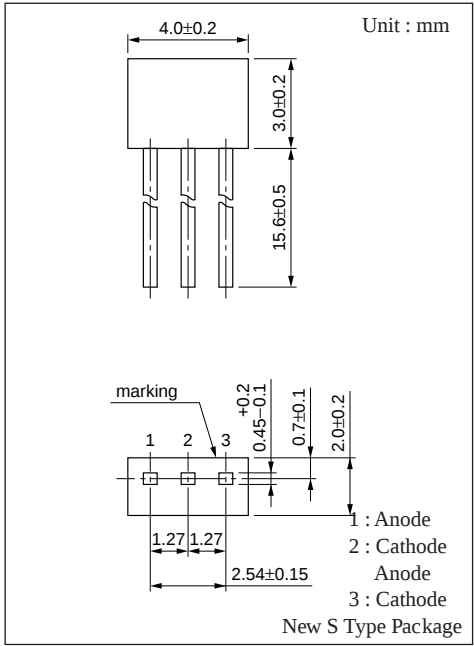
For switching circuits

■ Features

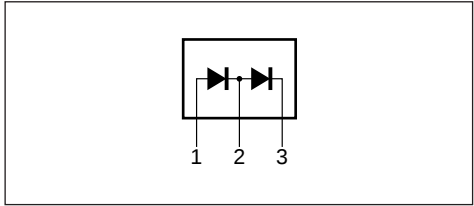
- Short reverse recovery period t_{rr}
- Small capacity between pins, C_t

■ Absolute Maximum Ratings (Ta= 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



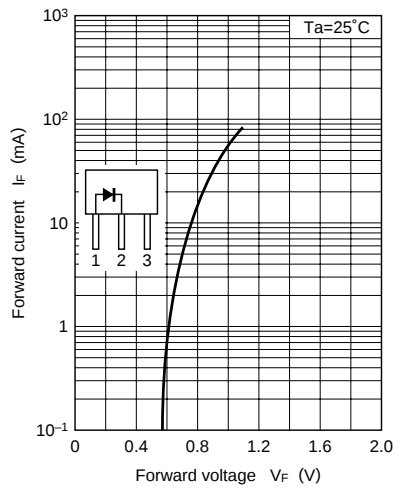
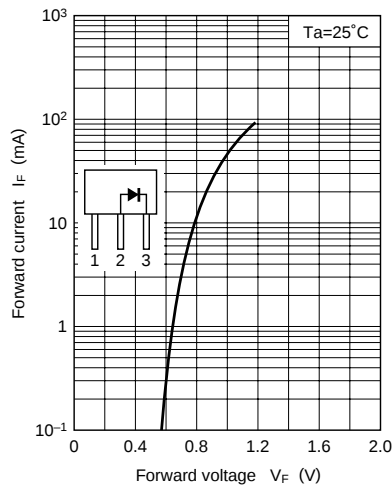
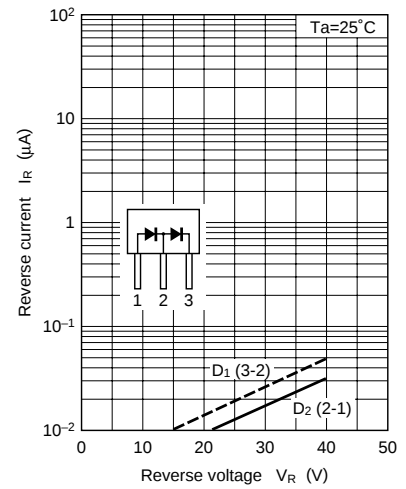
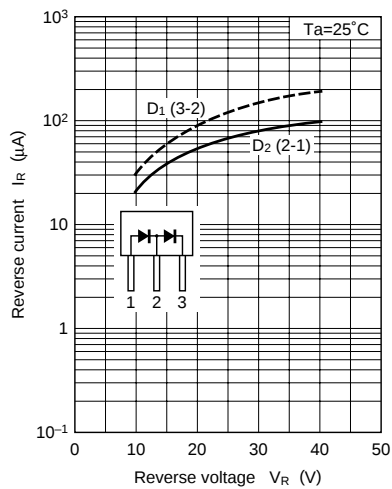
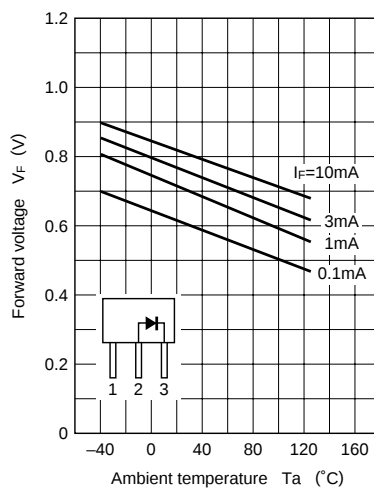
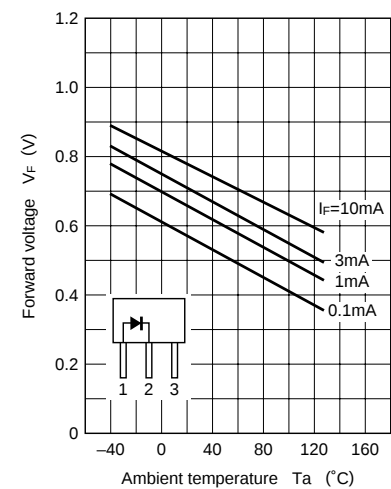
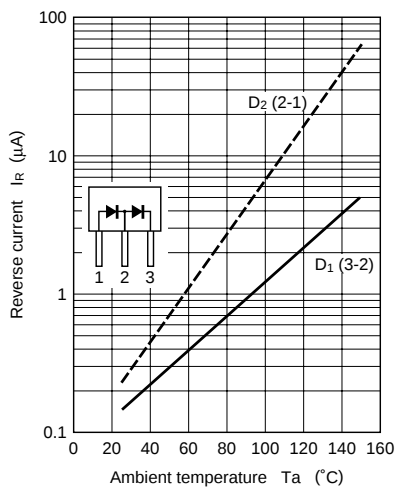
■ Internal Connection



■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 40V$			0.1	μA
Forward voltage (DC)	V_F	$I_F = 100mA$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\mu A$	40			V
Terminal capacitance	C_{t1}^{*1}	$V_R = 0V, f = 1MHz$			5.5	pF
	C_{t2}^{*2}				3.0	

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

$I_F - V_F$  $I_F - V_F$  $I_R - V_R$  $I_R - V_R$  $V_F - T_a$  $V_F - T_a$  $I_R - T_a$  $C_t - V_R$ 