

MA153, MA153A

Silicon epitaxial planer type

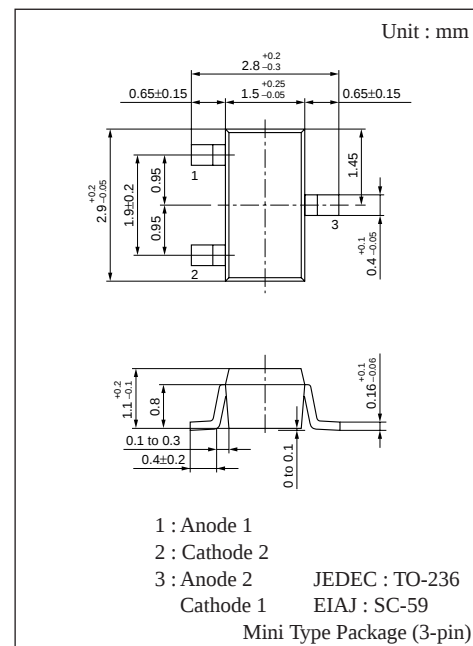
For switching circuits

■ Features

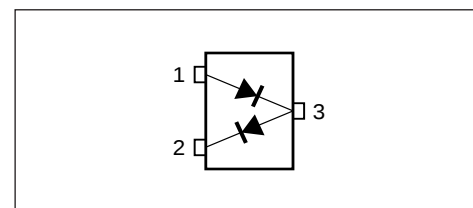
- Small capacity between pins, C_t
- Series connection in package

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)	MA153	V_R	40	V
	MA153A	V_{RM}	80	
Peak reverse voltage	MA153	I_F	40	V
	MA153A		80	
Forward current (DC)	Single	I_{FM}	100	mA
	Series		65	
Peak forward current	Single	I_{FSM}	200	mA
	Series		130	
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)	MA153	I_R	$V_R=40V$			0.1	μA
	MA153A		$V_R=75V$			0.1	
Forward voltage (DC)		V_F	$I_F=100mA$			1.2	V
Reverse voltage (DC)	MA153	V_R	$I_R=100\mu A$	40			V
	MA153A			80			
Terminal capacitance		C_t	$V_R=0V, f=1MHz$			5	pF
Reverse recovery time		t_{rr} (2 to 3 pins)	$I_F=10mA, V_R=6V$ $I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		150		ns
		t_{rr} (1 to 3 pins)	$I_F=10mA, V_R=6V$ $I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		9		ns

❖ Rated input/output frequency : 100MHz

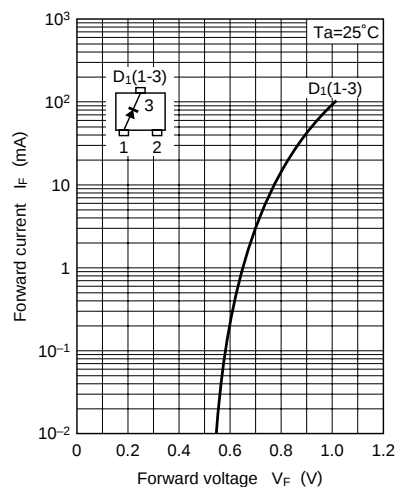
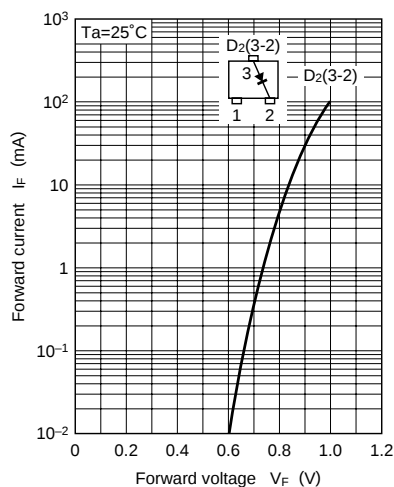
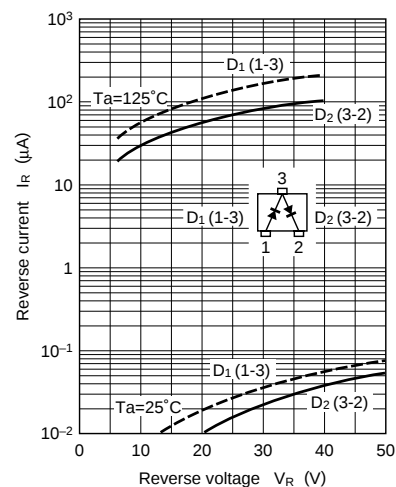
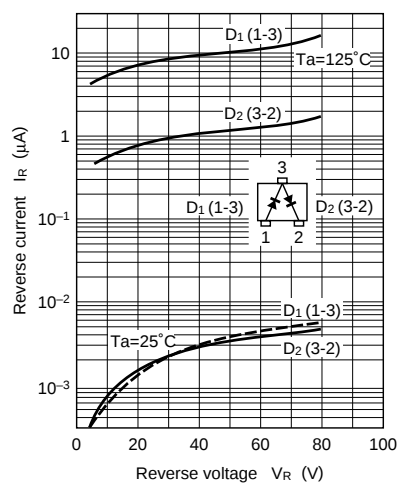
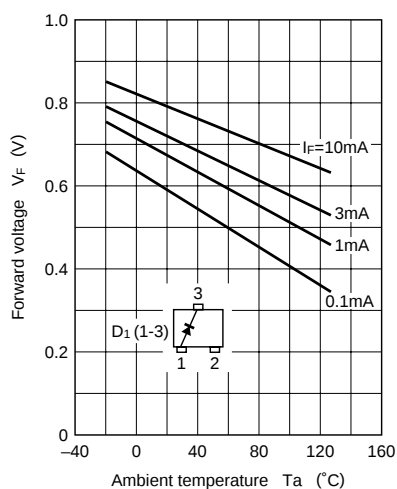
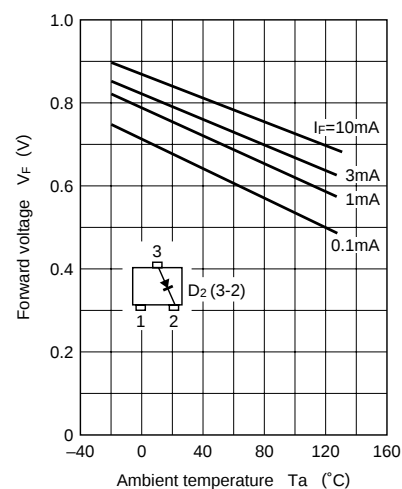
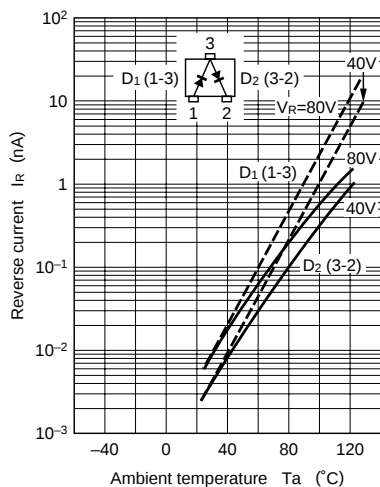
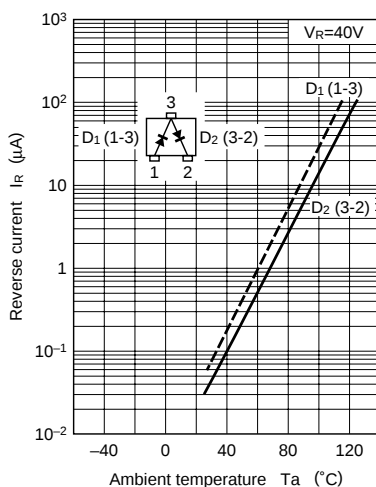
■ Marking

Type No.	MA153	MA153A
Symbol	MC	MP

■ Marking (Example)



(MA153)

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