

MA3X153, MA3X153A

Silicon epitaxial planar type

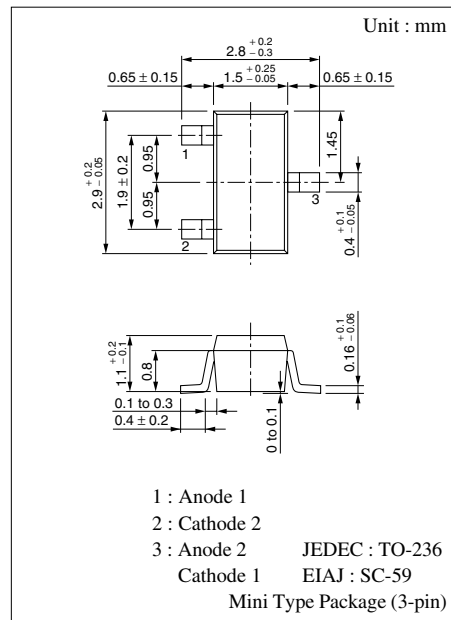
For switching circuits

■ Features

- Small terminal capacitance, C_t
- Two diodes are connected in series in the package

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

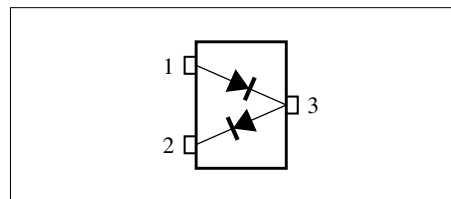
Parameter	Symbol	Rating	Unit	
Reverse voltage (DC)	MA3X153	V_R	40	V
	MA3X153A		80	
Peak reverse voltage	MA3X153	V_{RM}	40	V
	MA3X153A		80	
Forward current (DC)	Single	I_F	100	mA
	Series		65	
Peak forward current	Single	I_{FM}	200	mA
	Series		130	
Junction temperature	T_j	150	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$	



Marking Symbol

- MA3X153 : MC
- MA3X153A : MP

Internal Connection



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	MA3X153	$V_R = 40\text{ V}$			0.1	μA
	MA3X153A	$V_R = 75\text{ V}$			0.1	
Forward voltage (DC)	V_F	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage (DC)	MA3X153	$I_R = 100\ \mu\text{A}$	40			V
	MA3X153A		80			
Terminal capacitance	C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$			5	pF
Reverse recovery time	t_{rr}^{*1}	$I_F = 10\text{ mA}, V_R = 6\text{ V}$ $I_{tr} = 0.1 \cdot I_R, R_L = 100\ \Omega$		150		ns
	t_{rr1}^{*2}	$I_F = 10\text{ mA}, V_R = 6\text{ V}$ $I_{tr} = 0.1 \cdot I_R, R_L = 100\ \Omega$		9		ns

Note) 1. Rated input/output frequency: 100 MHz

2. *1 : Between pins 2 and 3

*2 : Between pins 1 and 3

