

# MA3X153, MA3X153A (MA153, MA153A)

Silicon epitaxial planar type

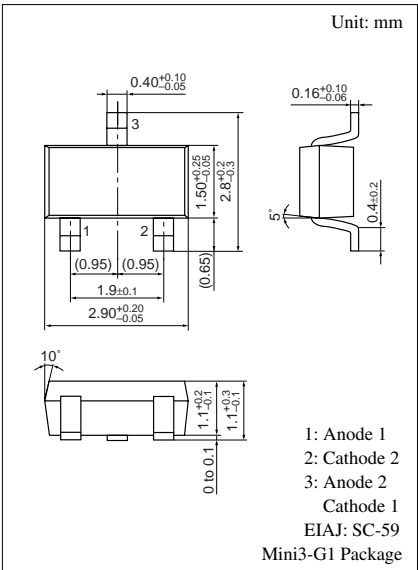
For switching circuits

## ■ Features

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

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

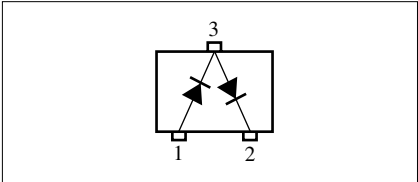
Parameter		Symbol	Rating	Unit
Reverse voltage (DC)	MA3X153	$V_R$	40	V
	MA3X153A		80	
Peak reverse voltage	MA3X153	$V_{RM}$	40	V
	MA3X153A		80	
Forward current (DC)	Single	$I_F$	100	mA
	Series		65	
Peak forward current	Single	$I_{FM}$	200	mA
	Series		130	
Junction temperature		$T_j$	150	°C
Storage temperature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



## Marking Symbol

- MA3X153 : MC
- MA3X153A: MP

## Internal Connection



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

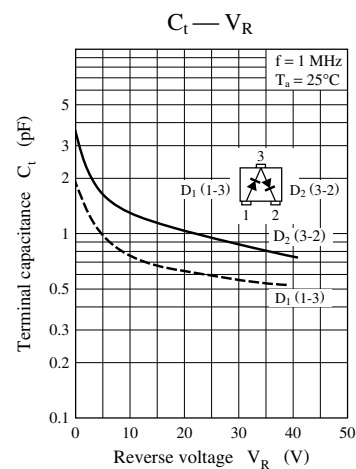
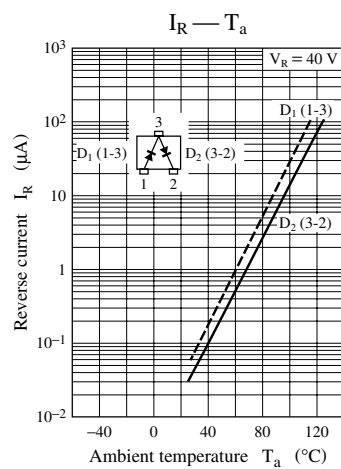
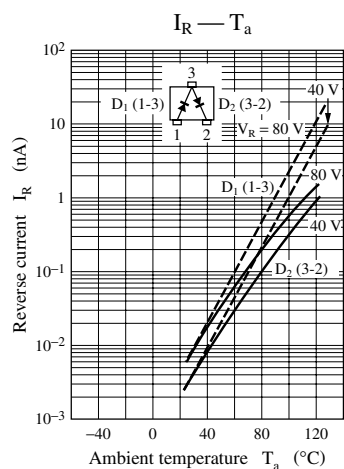
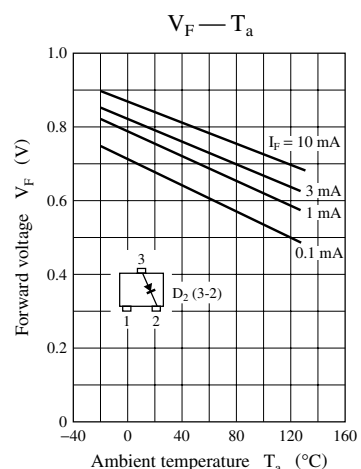
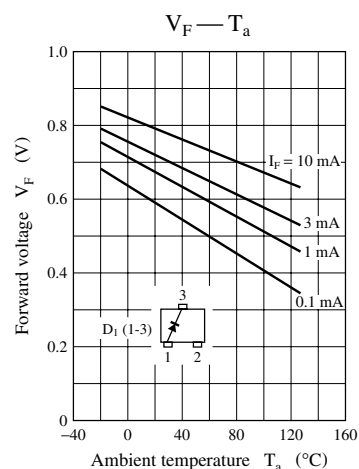
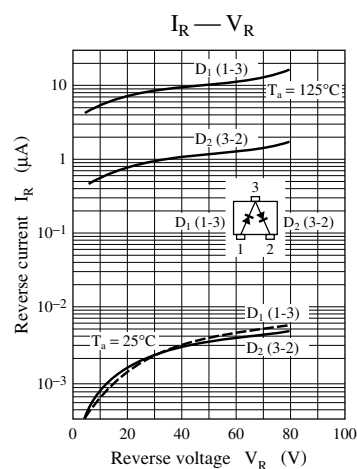
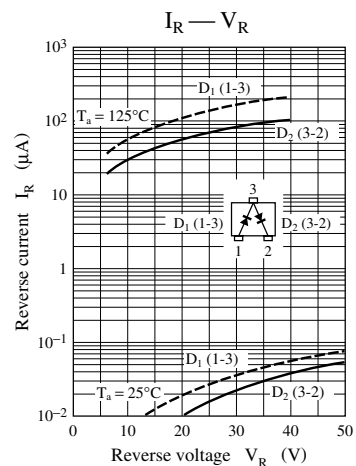
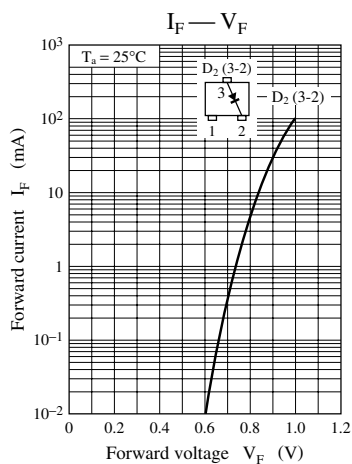
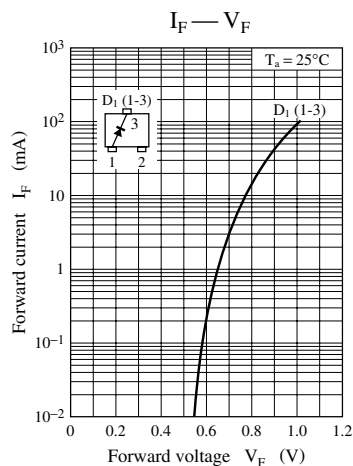
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	MA3X153	$I_R$	$V_R = 40\text{ V}$		0.1	$\mu\text{A}$
	MA3X153A		$V_R = 75\text{ V}$		0.1	
Forward voltage (DC)	$V_F$	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage (DC)	MA3X153	$V_R$	$I_R = 100\text{ }\mu\text{A}$	40		V
	MA3X153A			80	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

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

2. \*1: Between pins 2 and 3

\*2: Between pins 1 and 3

Note) The part numbers in the parenthesis show conventional part number.



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