MA3X153, MA3X153A (MA153, MA153A)

Silicon epitaxial planar type

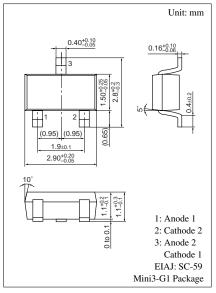
For switching circuits

■ Features

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

■ Absolute Maximum Ratings $T_a = 25$ °C

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

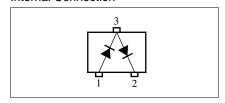


Marking Symbol

• MA3X153 : MC

• MA3X153A: MP

Internal Connection



■ Electrical Characteristics $T_a = 25$ °C

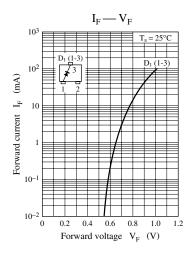
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	MA3X153	I_R	$V_R = 40 \text{ V}$			0.1	μΑ
	MA3X153A		V _R = 75 V			0.1	
Forward voltage (DC)		V_{F}	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	MA3X153	V_R	$I_R = 100 \mu A$	40			V
	MA3X153A			80			
Terminal capacitance		C _t	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$			5	pF
Reverse recovery time		t _{rr} *1	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$		150		ns
			$I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$				
		t_{rr1}^{*2}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$		9		ns
			$I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$				

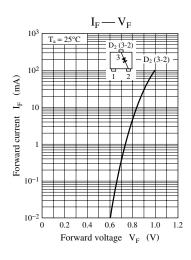
Note) 1. Rated input/output frequency: 100 MHz

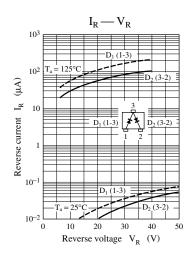
- 2. *1:Between pins 2 and 3
 - *2: Between pins 1 and 3

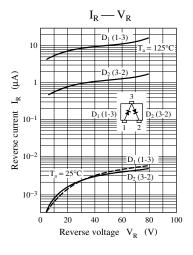
Note) The part numbers in the parenthesis show conventional part number.

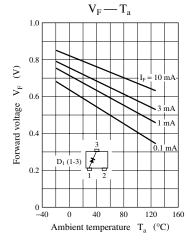
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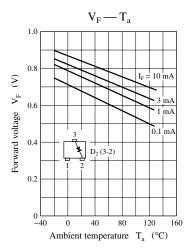


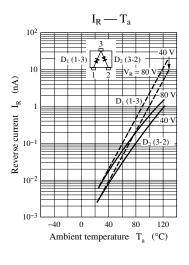


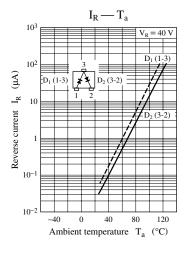


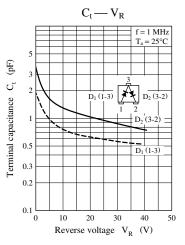












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