

MA3X152D, MA3X152E (MA152WA, MA152WK)

Silicon epitaxial planar type

For switching circuits

■ Features

- Short reverse recovery time t_{rr}
- Small terminal capacitance, C_t

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

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	80	V
Peak reverse voltage		V_{RM}	80	V
Forward current (DC)	Single	I_F	100	mA
	Double		150	
Peak forward current	Single	I_{FM}	225	mA
	Double		340	
Non-repetitive peak forward surge current *	Single	I_{FSM}	500	mA
	Double		750	
Junction temperature		T_j	150	$^\circ\text{C}$
Storage temperature		T_{stg}	-55 to +150	$^\circ\text{C}$

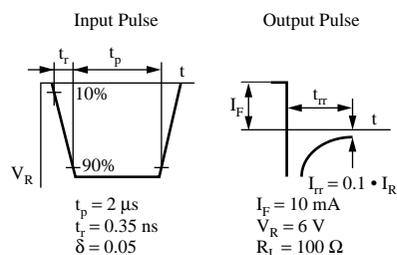
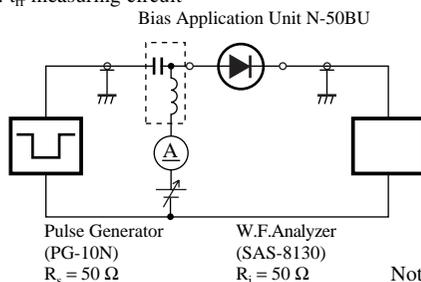
Note) *: $t = 1\text{ s}$

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

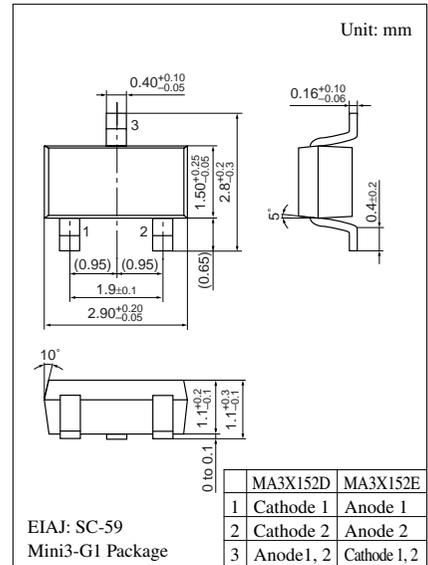
Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)		I_R	$V_R = 75\text{ V}$			0.1	μA
Forward voltage (DC)		V_F	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage (DC)		V_R	$I_R = 100\ \mu\text{A}$	80			V
Terminal capacitance	MA3X152D	C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$			15	pF
	MA3X152E					2	
Reverse recovery time *	MA3X152D	t_{rr}	$I_F = 10\text{ mA}, V_R = 6\text{ V}$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\ \Omega$			10	ns
	MA3X152E					3	

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

2. *: t_{rr} measuring circuit



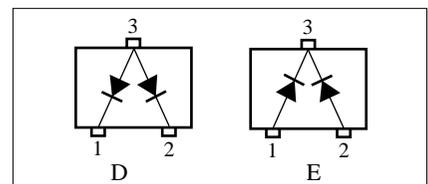
Note) The part numbers in the parenthesis show conventional part number.



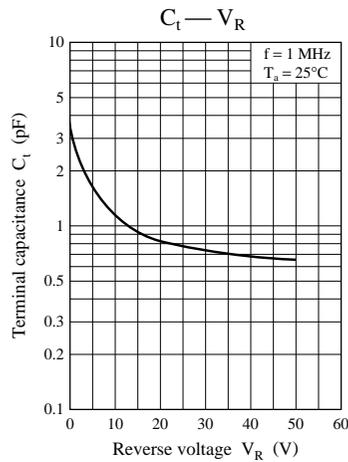
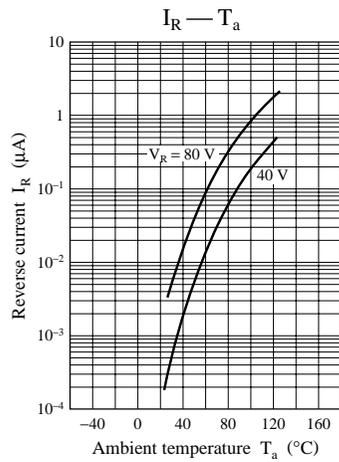
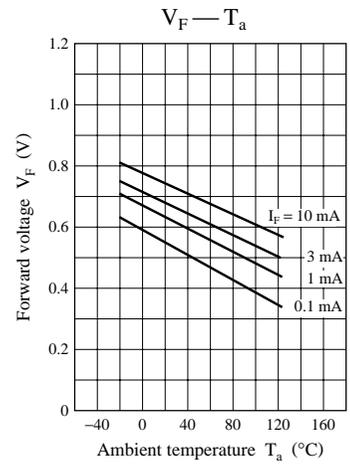
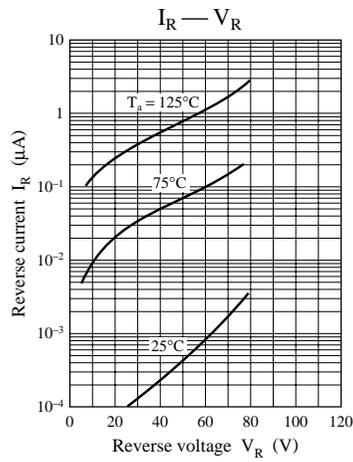
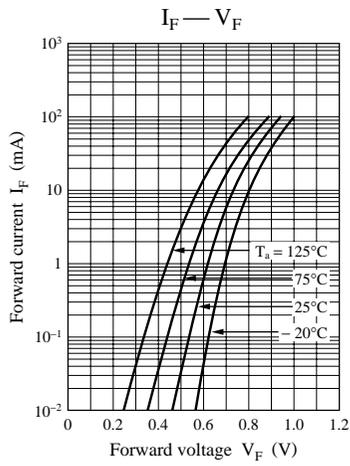
Marking Symbol

- MA3X152D: MO
- MA3X152E: MU

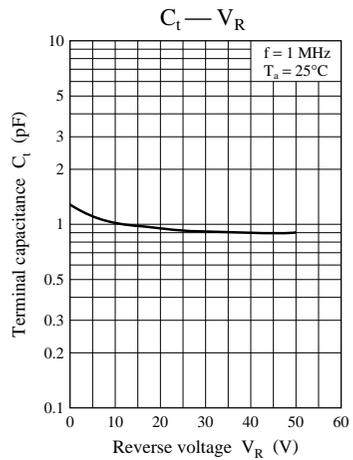
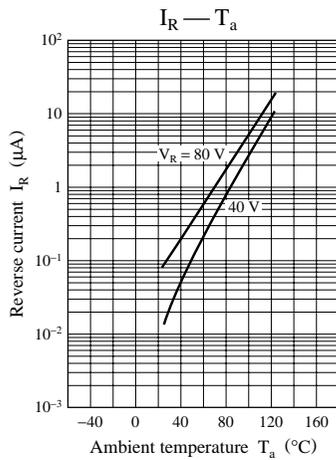
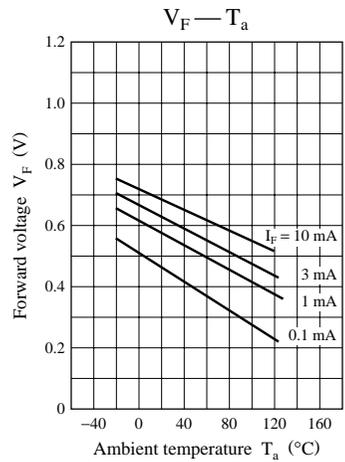
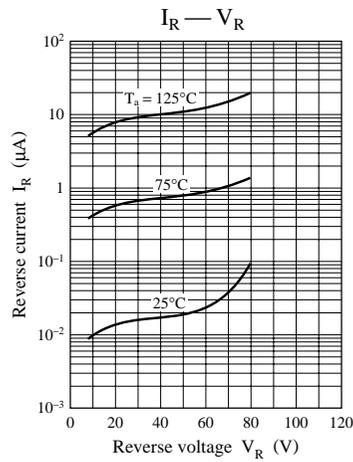
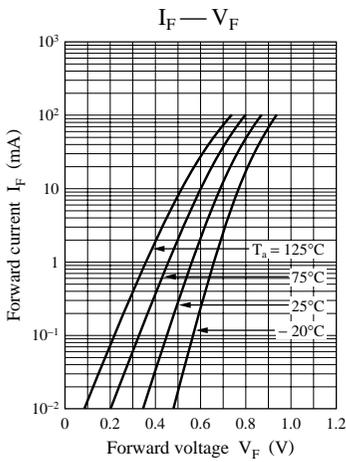
Internal Connection



Characteristics chart of MA3X152D



Characteristics chart of MA3X152E



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