MA3X152E (MA152WK)

Silicon epitaxial planar type

For switching circuits

Features

- \bullet Short reverse recovery time $t_{\rm rr}$
- Small terminal capacitance, Ct

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

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V _R	80	V
Peak reverse voltage		V _{RM}	80	V
Forward current	Single	I _F	100	mA
(DC)	Double	1	150	
Peak forward	Single	I _{FM}	225	mA
current	Double		340	
Non-repetitive peak	Single	I _{FSM}	500	mA
forward surge current*	Double		750	
Junction temperature		Tj	150	°C
Storage temperature		T _{stg}	-55 to +150	°C

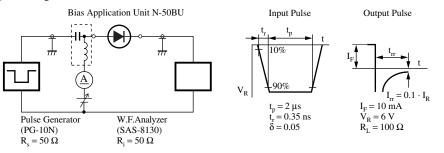
Note) * : t = 1 s

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

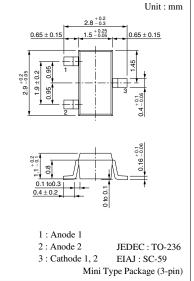
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Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	V _R = 75 V			0.1	μA
Forward voltage (DC)	V _F	I _F = 100 mA			1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \ \mu A$	80			V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 \cdot I_R, R_L = 100 \ \Omega$				

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

2. * : t_{rr} measuring circuit

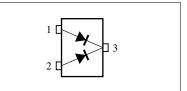


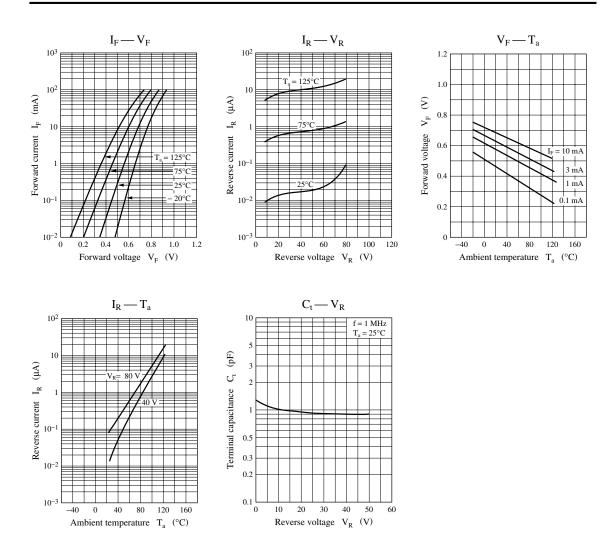
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: MU

Internal Connection





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