MA3X199 (MA199)

Silicon epitaxial planar type

For high voltage switching circuit

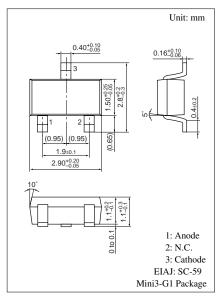
■ Features

- High breakdown voltage: $V_R = 200 \text{ V}$
- Short reverse recovery time t_{rr}
- Small package, allowing automatic mounting

■ Absolute Maximum Ratings $T_a = 25$ °C

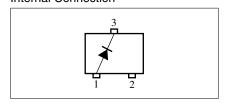
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	200	V
Repetitive peak reverse voltage	V_{RRM}	250	V
Average forward current	$I_{F(AV)}$	100	mA
Repetitive peak forward current	I_{FRM}	225	mA
Non-repetitive peak forward surge current*	I_{FSM}	500	mA
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Note) *: t = 1 s



Marking Symbol: M3A

Internal Connection

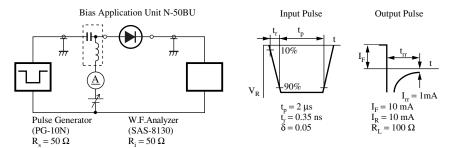


■ Electrical Characteristics $T_a = 25$ °C

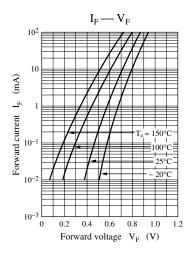
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 200 \text{ V}$			1	μΑ
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$			1.2	V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			3	pF
Reverse recovery time*	t _{rr}	$I_F = I_R = 10 \text{ mA}$			60	ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				

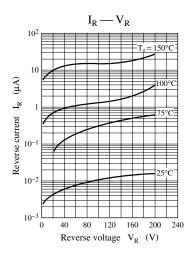
Note) 1. Rated input/output frequency: 20 MHz

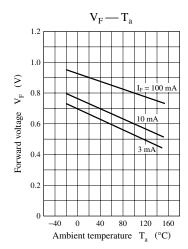
2. *: t_{rr} measuring circuit

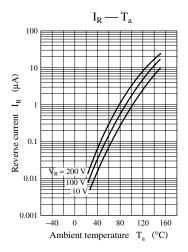


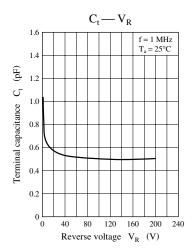
Note) The part number in the parenthesis shows conventional part number.











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