

MA158

Silicon epitaxial planer type

For switching circuits

■ Features

- High reverse voltage V_R
- Large forward current $I_{F(AV)}$
- Small package and automatic mounting

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	200	V
Repetitive peak reverse voltage	V_{RRM}	250	V
Non-repetitive peak reverse surge voltage	V_{RSM}	300	V
Output current	I_O	100	mA
Non-repetitive peak forward surge current	I_{FSM}^*	500	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	- 55 to +150	$^\circ\text{C}$

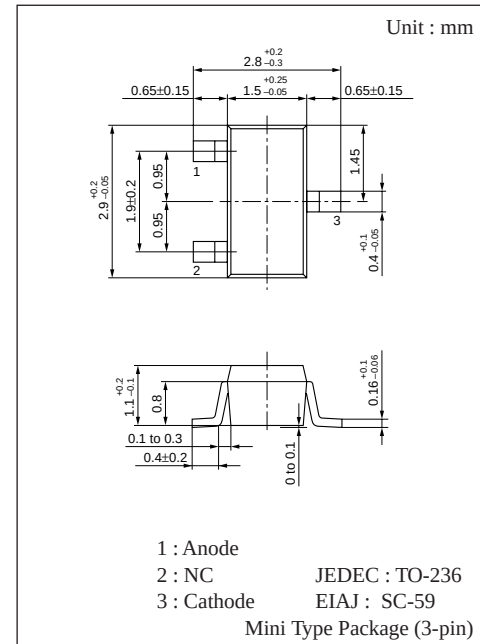
* $t = 1\text{s}$

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

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 200\text{V}$			1.0	μA
Forward voltage (DC)	V_F	$I_F = 100\text{mA}$			1.3	V

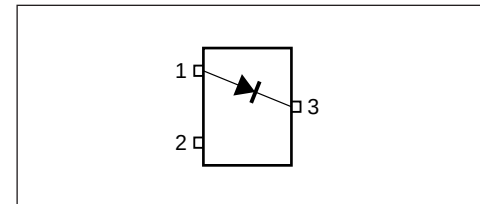
❖ Rated input/output frequency : 3MHz

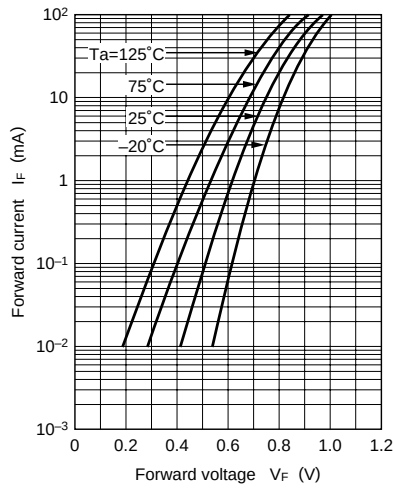
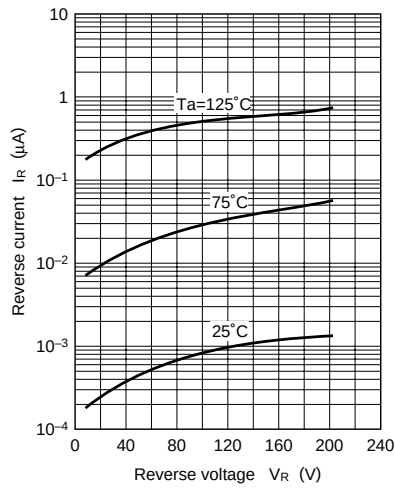
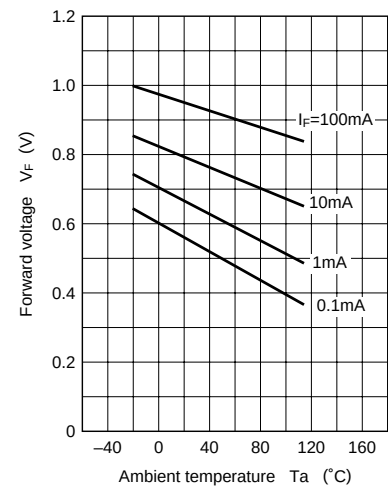
■ Marking



Marking Symbol : M1C

■ Internal Connection



$I_F - V_F$  $I_R - V_R$  $V_F - T_a$  $I_R - T_a$ 