

# MA3X158 (MA158)

## Silicon epitaxial planar type

For small power rectification and surge absorption

### ■ Features

- High reverse voltage  $V_R$
- Large forward current (Average)  $I_{F(AV)}$
- Automatic mounting is possible

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	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
Repetitive peak forward current	$I_{FRM}$	225	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 +125	$^\circ\text{C}$

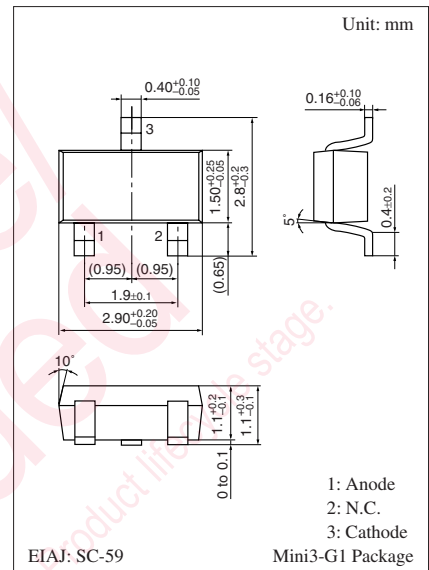
Note) \*:  $t = 1 \text{ s}$

### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 100 \text{ mA}$			1.3	V
Reverse current	$I_R$	$V_R = 200 \text{ V}$			1.0	$\mu\text{A}$

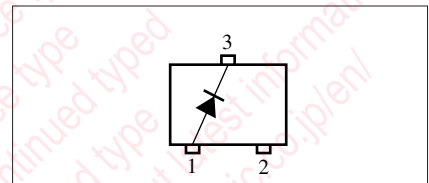
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 3 MHz.

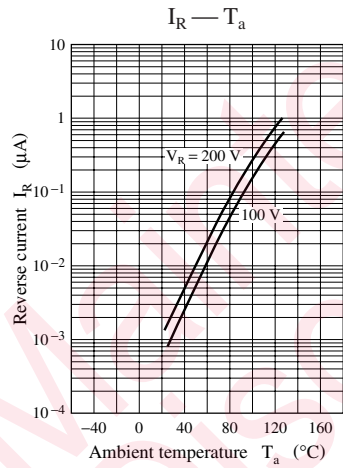
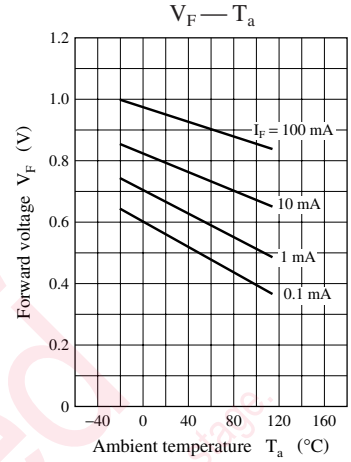
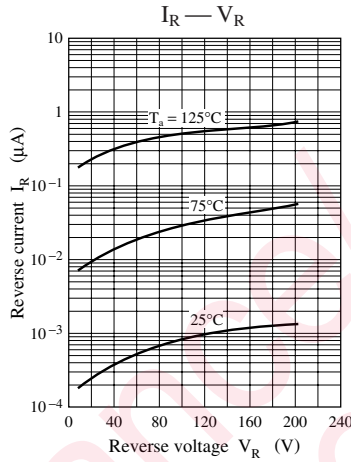
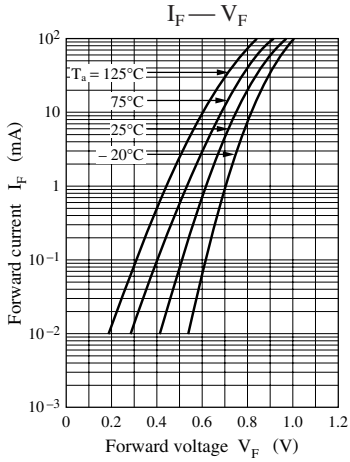


Marking Symbol: M1C

Internal Connection



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



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 maintenance type  
 planned discontinued type  
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