MA3X158 (MA158)

Silicon epitaxial planar type

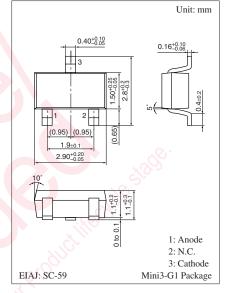
For small power rectification and surge absorption

Features

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

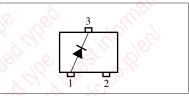
Absolute Maximum Ratings $T_a = 25^{\circ}C$

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	Io	100	mA
Repetitive peak forward current	I _{FRM}	225	mA
Non-repetitive peak forward surge current*	I _{FSM}	500	mA
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C
Note) $*: t = 1 s$	No. 16		



Marking Symbol: M1C

Internal Connection



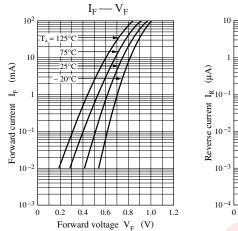
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$ Conditions Parameter Symbol Unit Min Тур Max Forward voltage V_F $I_{\rm F} = 100 \, {\rm mA}$ 1.3 V Reverse current $V_{R} = 200 V$ 1.0 I_R μΑ

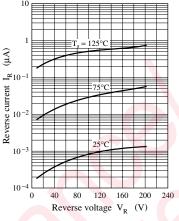
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

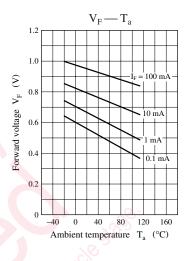
2. Absolute frequency of input and output is 3 MHz.

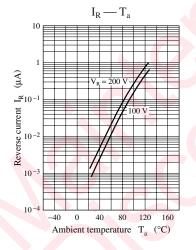
 $I_R - V_R$

Panasonic









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