MA3X158 (MA158)

Silicon epitaxial planar type

For small power rectification and surge absorption

Features

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

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

Parameter	Symbol	Rating	Unit	
Reverse voltage (DC)	V _R	200	V	
Repetitive peak reverse voltage	V _{RRM}	250	V	
Non-repetitive peak forward surge voltage	V _{RSM}	300	V	
Output current	I _{F(AV)}	100	mA	
Non-repetitive peak forward surge current*	I _{FSM}	500	mA	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

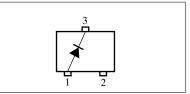
Note) *: t = 1 s

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

	Unit: mm
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.16 ^{+0.10}
	1: Anode 2: N.C. 3: Cathode EIAJ: SC-59 Mini3-G1 Package

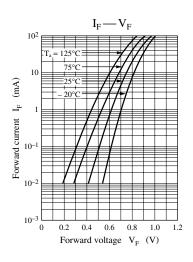
Marking Symbol: M1C

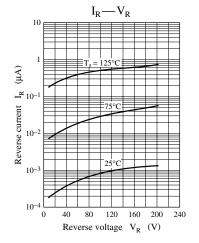
Internal Connection

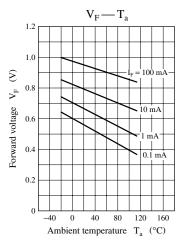


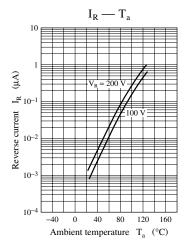
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_{R} = 200 V$			1.0	μΑ
Forward voltage (DC)	V _F	$I_{\rm F} = 100 \ {\rm mA}$			1.3	V

Note) Rated input/output frequency: 3 MHz









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