## **MA3XD15**

## Silicon epitaxial planar type

### For high frequency rectification

#### ■ Features

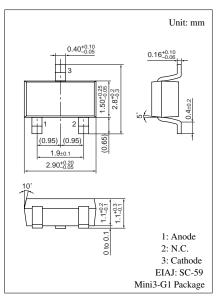
Low forward voltage: V<sub>F</sub> < 0.45 V</li>
 Small reverse current: I<sub>R</sub> < 100 μA</li>
 I<sub>F(AV)</sub> = 1 A rectification is possible

• Mini type 3-pin package

### ■ Absolute Maximum Ratings $T_a = 25$ °C

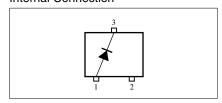
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	20	V
Repetitive peak reverse-voltage	$V_{RRM}$	25	V
Non-repetitive peak forward- surge-current *1	I <sub>FSM</sub>	3	A
Average forward current *2	I <sub>F(AV)</sub>	1	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

Note) \*1: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)



Marking Symbol: M5N

#### Internal Connection



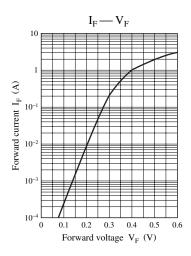
## ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

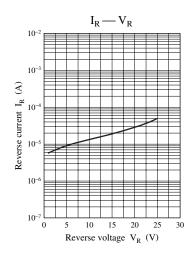
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 20 \text{ V}$			100	μΑ
Forward voltage (DC)	$V_{\rm F}$	$I_F = 1 A$			0.45	V
Terminal capacitance	C <sub>t</sub>	$V_R = 0 V, f = 1 MHz$		120		pF

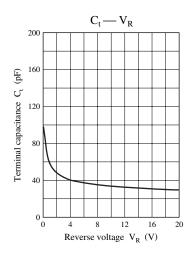
Note) This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

<sup>\*2:</sup> Mounted on a alumina PC board

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