

Schottky Barrier Diodes

MA3XD15

■ Features

- Mini type 3-pin package
- Low V_F or Low I_R type: $V_F < 0.45\text{ V}$, $I_R < 100\ \mu\text{A}$
- Allowing to rectify under ($I_{F(AV)} = 1\text{ A}$) condition

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	20	V
Repetitive peak reverse-voltage	I_{RRM}	25	V
Non-repetitive peak forward surge current (Note 1)	I_{FSM}	3	A
Average forward current (Note 2)	$I_{F(AV)}$	1.0	A
Junction temperature	T_j	+125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to+ 125	$^\circ\text{C}$

Note

- 1 : The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)
 2 : With a alumina PC board

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 20\text{ V}$			100	μA
Forward voltage (DC)	V_F	$I_F = 1.0\text{ mA}$			0.45	V
Terminal capacitance	C_t	$V_R = 0\text{ V}$, $f = 1\text{ MHz}$		120		pF

Note

1. 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.

■ Marking

Marking	M5N
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