

# MA3ZD12

Silicon epitaxial planar type

For high speed switching

## ■ Features

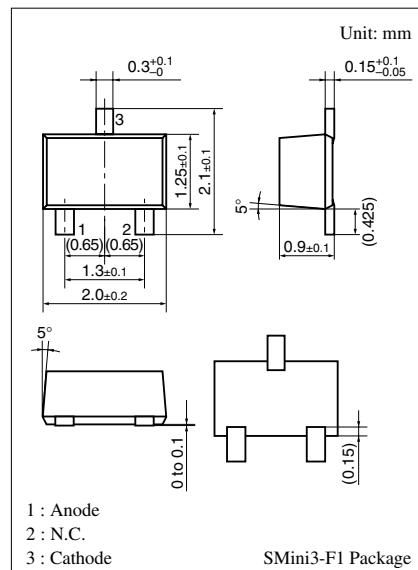
- $I_{F(AV)} = 700$  mA rectification is possible
- Low forward voltage:  $V_F < 0.45$  V
- High-density mounting is possible
- S-Mini type 3-pin package

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	20	V
Repetitive peak reverse-voltage	$V_{RRM}$	25	V
Average forward current <sup>*2</sup>	$I_{F(AV)}$	700	mA
Non-repetitive peak forward-surge-current <sup>*1</sup>	$I_{FSM}$	2	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

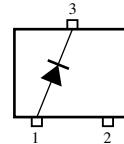
Note) \*1: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

\*2: Mounted on a alumina PC board



Marking Symbol: M5E

Internal Connection

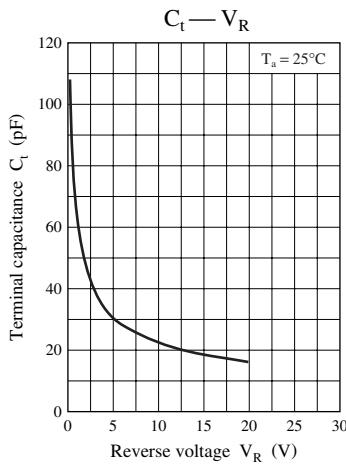
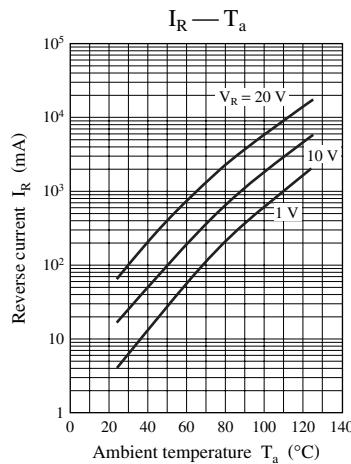
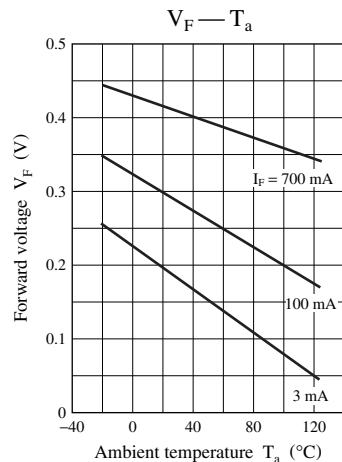
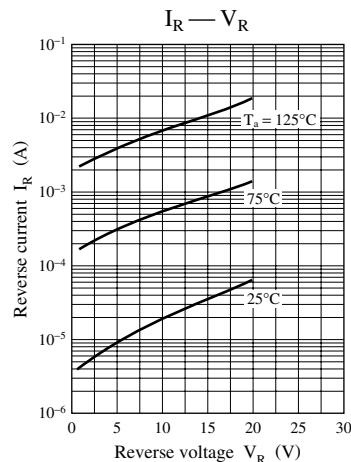
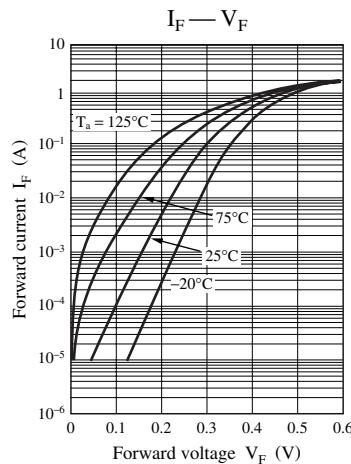


## ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 20$ V			200	$\mu\text{A}$
Forward voltage (DC)	$V_F$	$I_F = 700$ mA			0.45	V
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz		100		pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100$ $\Omega$		7		ns

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.

2. Rated input/output frequency: 250 MHz



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