MA3ZD12

Silicon epitaxial planar type

For high speed switching

■ Features

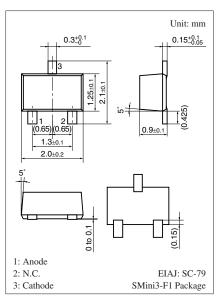
- Forward current (Average) I_{F(AV)} = 700 mA rectification is possible
- \bullet Low forward voltage: $V_F < 0.45 \text{ V}$
- High-density mounting is possible

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Repetitive peak reverse voltage	V _{RRM}	25	V
Forward current (Average) *1	I _{F(AV)}	700	mA
Non-repetitive peak forward surge current *2	I _{FSM}	2	A
Junction temperature	T _j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

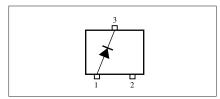
Note) *1: Mounted on an alumina PC board

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



Marking Symbol: M5E

Internal Connection

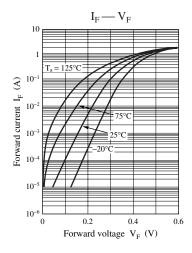


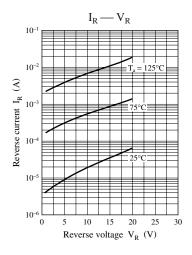
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

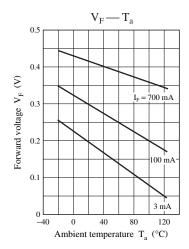
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 700 \text{ mA}$			0.45	V
Reverse current	I_R	$V_R = 20 \text{ V}$			200	μΑ
Terminal capacitance	C_{t}	$V_R = 0 V, f = 1 MHz$		100		pF
Reverse recovery time	t _{rr}	$I_F = I_R = 100 \text{ mA}$		7		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

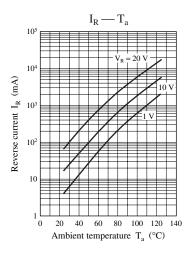
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

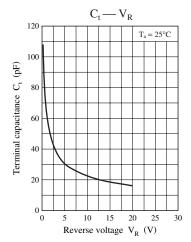
- This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz.











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