MA3XD21

Silicon epitaxial planar type

For high frequency rectification

■ Features

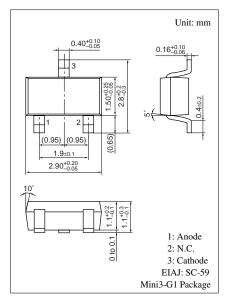
- $I_{F(AV)} = 1$ A rectification is possible
- Low forward voltage V_F
- Mini type 3-pin package

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	15	V
Repetitive peak reverse-voltage	V_{RRM}	15	V
Average forward current *1	I _{F(AV)}	1	A
Non-repetitive peak forward- surge-current *2	I _{FSM}	3	A
Junction temperature	T _j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

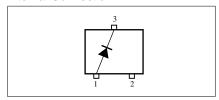
Note) *1: Mounted on a alumina PC board

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



Marking Symbol: M6F

Internal Connection

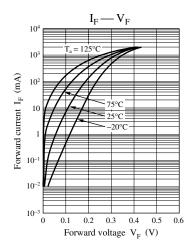


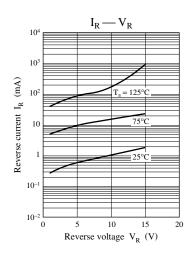
\blacksquare Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

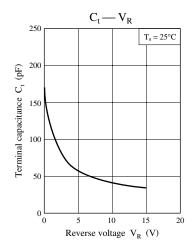
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 6 \text{ V}$			1.5	mA
Forward voltage (DC)	V _F	$I_F = 1 A$			0.4	V
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		180		pF
Reverse recovery time	t _{rr}	$I_F = I_R = 100 \text{ mA}$		12		ns
		$I_{rr} = 10 \text{ mA}, R_{L} = 100 \Omega$				

- 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: 400 MHz

MA3XD21 Panasonic







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