MA2SD31

Silicon epitaxial planar type

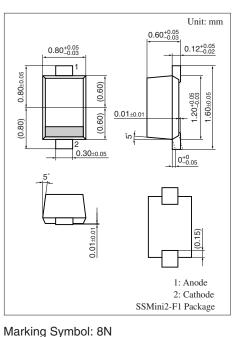
For super high speed switching

Features

- $I_{F(AV)} = 200$ mA rectification is possible.
- Low forward voltage: $V_F < 0.47$ V (at $I_F = 200$ mA)

Parameter	Symbol	Rating	Unit				
Reverse voltage	V _R	30	V				
Repetitive peak reverse voltage	V _{RRM}	30	V				
Forward current (Average)	I _{F(AV)}	200	mA				
Peak forward current	I _{FM}	300	mA				
Non-repetitive peak forward surge current *	I _{FSM}	1	А				
Junction temperature	Tj	125	°C				
Storage temperature	T _{stg}	-55 to +125	°C				





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

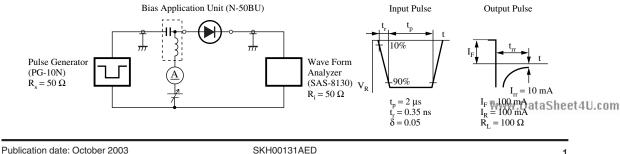
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	I _{R1}	$V_R = 10 V$			20	μΑ
	I _{R2}	$V_R = 30 V$			200	
Forward voltage	V _F	I _F = 200 mA		0.38	0.47	V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		25		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		2		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.

2. 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.

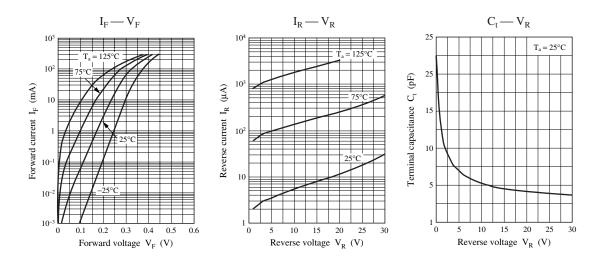
- 3. Absolute frequency of input and output is 250 MHz
- 4. *: trr measurement circuit



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