Unit: mm

MA3X198 (MA198)

Silicon epitaxial planar type

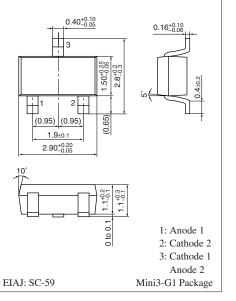
For wave detection

Features

- Two elements contained in one package, allowing high-density mounting
- Soft recovery characteristic ($t_{rr} = 100 \text{ ns}$)

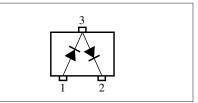
		<u> </u>		
Parameter		Symbol	Rating	Unit
Reverse voltage		V _R	40	V
Repetitive peak reverse voltage		V _{RRM}	40	V
Forward current	Single	I _{F(AV)}	100	mA
(Average)	Series		75	
Repetitive peak	Single	I _{FRM}	225	mA
forward current	Series		170	
Non-repetitive peak	Single	I _{FSM}	500	mA
forward surge current*	Series		325	
Junction temperature		Tj	150	°C
Storage temperature		T _{stg}	-55 to +150	°C
Note) $*: t = 1 s$		-		

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



Marking Symbol: M2F

Internal Connection

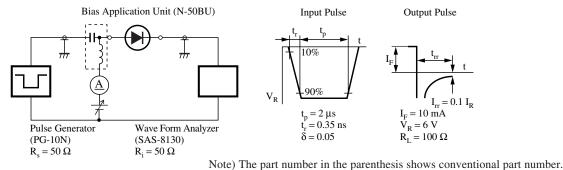


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$								
Parameter	Symbol	Conditions	Min	Тур	Max	Unit		
Forward voltage	V _{F1}	$I_F = 100 \ \mu A$	0.65		0.72	V		
	V _{F2}	$I_R = 100 \text{ mA}$			1.2	V		
Reverse current	I _R	$V_R = 40 V$			10	nA		
Terminal capacitance	Ct	$V_R = 6 V, f = 1 MHz$		1.0	2.0	pF		
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			100	ns		
		$I_{rr} = 0.1 \ I_R, R_L = 100 \ \Omega$						

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

2. Absolute frequency of input and output is 10 MHz.

3. *: t_{rr} measurement circuit

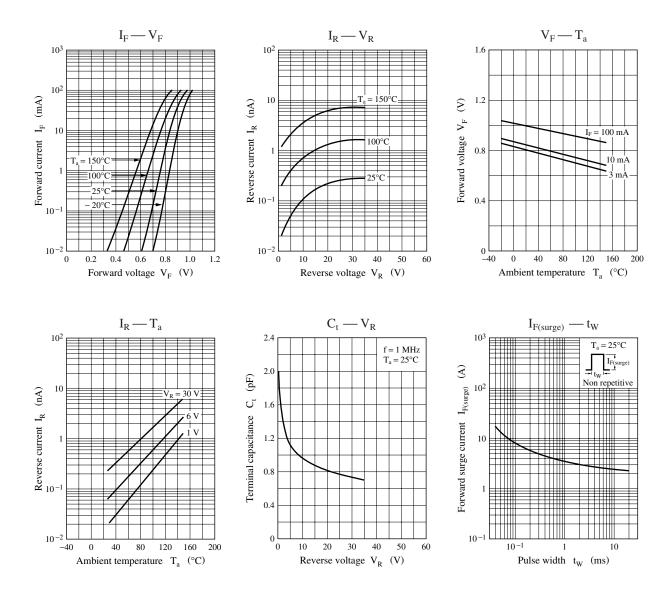


Publication date: February 2005

SKF00041DED

MA3X198





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