MC981

FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE(SERIES TYPE)

DESCRIPTION

MC981 is a small type resin sealed silicon epitaxial type double diode. It is especially designed for high speed switching application.

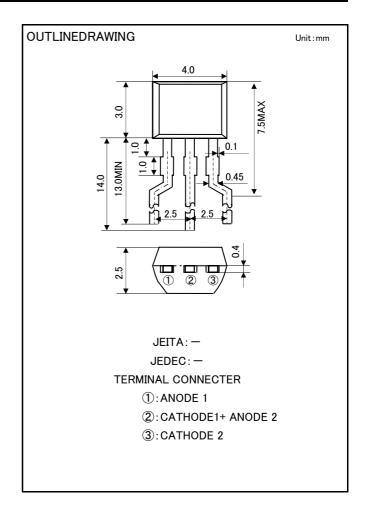
Due to the small pin capacitance(2pieces), it is most suitable for high speed switching application and limited clipper application.

FEATURE

- Small pin capacitance
- Small outline package for mounting
- Quick switching time
- Good two elements characteristics

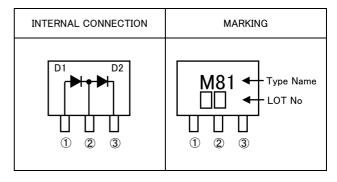
APPLICATION

For high speed switching of audio machine, VTR.



MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit	
V_{RM}	Peak reverse voltage	75	>	
V_R	DC reverse voltage	50	>	
I _{FSM}	Surge current(1μs)	4	Α	
I _{FM}	Peak forward current	300	mA	
I o	Average rectification current	100	mA	
P _T	Total allowance dissipation	450	mW	
T_j	Junction temperature	+125	ပ	
Tstg	Storage temperature	-55 ~ +125	°C	



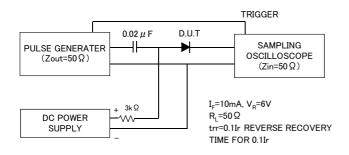
ELECTRICAL CHARACTERISTICS(Ta=25°C)

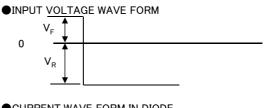
Parameter	Symbol	Test conditions	Limits			- Uniit
Parameter			Min	Тур	Max	Urillt
	V_{F1}	I _F =10mA	1	0.68	0.9	
Forward voltage	V_{F2}	I _F =50mA	-	0.82	1.0	٧
	V_{F3}	I _F =100mA	-	0.92	1.2	
Reverse current	\mathbf{I}_{R}	V _R =50V	-	-	0.1	μΑ
Pin capacitance	C _t	V _R =0V, f=1MHz	-	1.2	4.0	pF
Reverse recovery time	trr	(Refer to test circuit)	-	_	4.0	ns

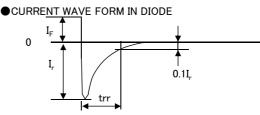
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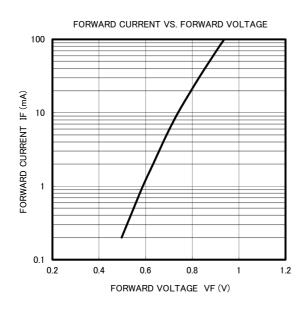
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

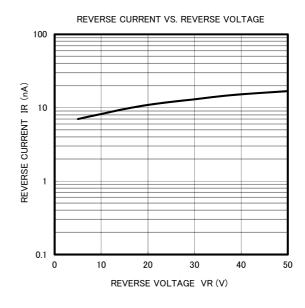


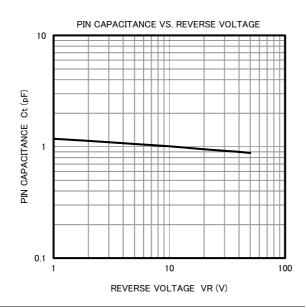


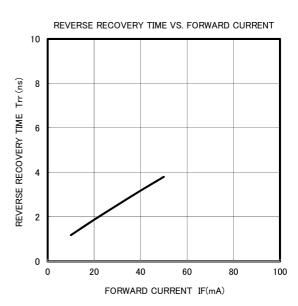


TYPICAL CHARACTERISTICS (Ta=25°C)











6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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