MC981

For High Speed Swiching 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 swiching application.

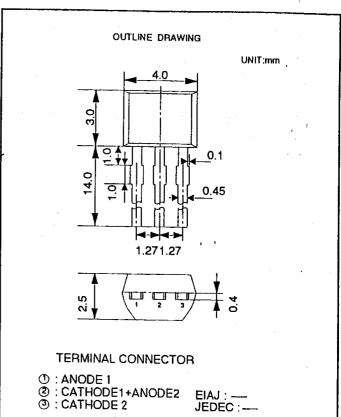
Due to the small pin'capacitance(2 pieces), it is most suitable for high speed switing apprication and limitted clippe application.

FEATURE

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

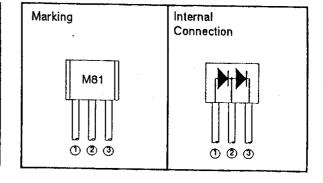
APPLICATION

For high speed swiching of audio machine, VCR.



MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT
VRM	Peak reverse voltage	75	V
VR	DC reverse voltage	50	. V
l fsm	Surge current(1 µS)	4	A
I FM	Peak forward current	300	mA
lo	Average rectification current	100	mA
Рт	Total allowable dissipation	450	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55to+125	°C



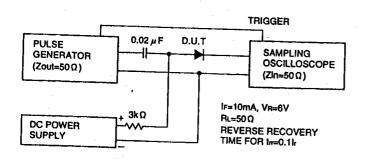
ELECTRICAL CHARACTERISTICS (Ta=25°C)

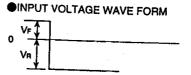
SYMBOL	PARAMETER	TESTCONDITIONS	LIMITS			
			MIN	TYP	MAX	TINU
VF1	Forward voltage	I F=10mA		0.68	0.9	1 v
VF2	Forward voltage	I F=50mA		0.82	1.0	
VF3	Forward voltage	I F=100mA		0.92	1.2	
l R	Reverse current	VR=50V		0.92	0.1	ļ <u> </u>
Cı	Pin capacitance	VR=0,f=1MHz		10	4.0	μA
trr		(measurement circiut reference)		1.2	4.0	ns pr

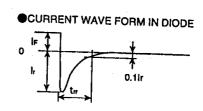
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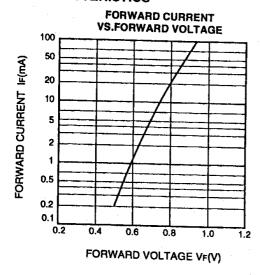
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

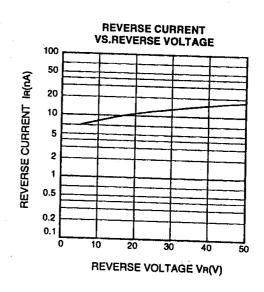


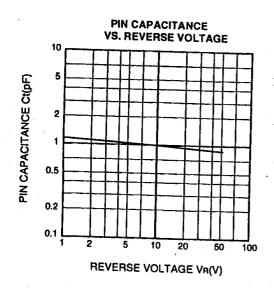


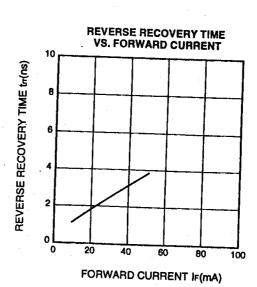


TYPICAL CHARACTERISTICS











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