# MC961

For High Speed Swiching Application Silicon Epitaxial Type (Common Anode)

#### DESCRIPTION

MC961 is a small type resin sealed silicon epitaxial type double diode. It is especially designed for high speed swiching application.

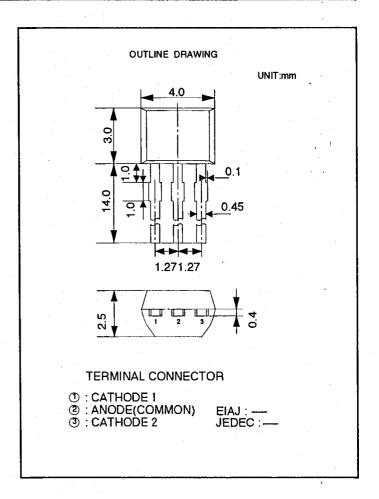
Due to the small pin capacitance, short swiching time( reverse recovery time), it is most suitable for high speed swiching application and limitter, clipper application.

#### **FEATURE**

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

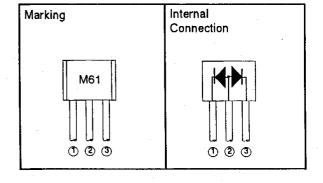
## **APPLICATION**

General 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	
I FSM	Surge current(1 µS)	4	Α.	
I FM	Peak forward current	300	mA	
10	Average rectification current	100	mA	
Рт	Total allowable dissipation	450	mW	
Tj	Junction temperature	+125	°C	
Tstg	Storage temperature	-55to+125	°C	



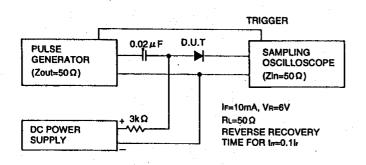
# ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TESTCONDITIONS		LIMITS		
			MIN	TYP	MAX	UNIT
VF1	Forward voltage	I F=10mA		0.77	0.9	V
VF2	Forward voltage	I F=50mA		0.90	1.0	V
VF3	Forward voltage	I F=100mA		0.95	1.2	V
l R	Reverse current	VR=50V			0.1	μА
Ci	Pin capacitance	Vn=0,f=1MHz		2.8	4.0	pF
trr	Reverse recovery time	(Refer to test circuit)			4.0	ns

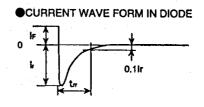
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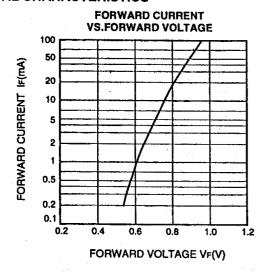
# REVERSE RECOVERY TIME(trr)TEST CIRCUIT

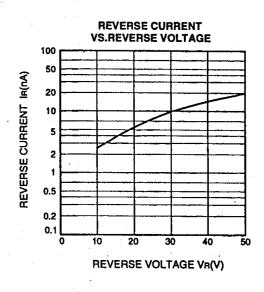


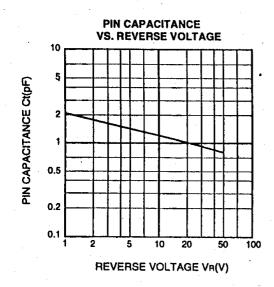
# O V<sub>F</sub> V<sub>R</sub> V<sub>R</sub>

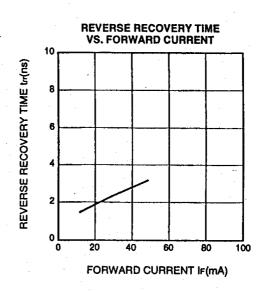


## TYPICAL CHARACTERISTICS











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