<DIODE >

MC961

FOR HIGH SPEED SWITCHING 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 switching application.

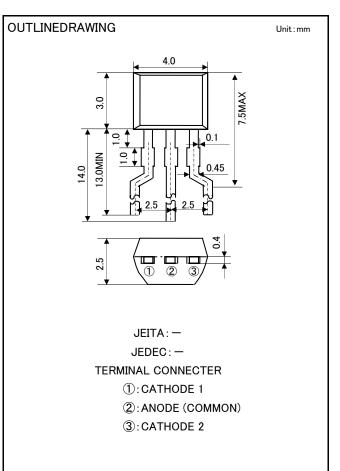
Due to the small pin capacitance, short switching time (reverse recovery time). It is most suitable for high speed switching application and limitter, clipper application.

FEATURE

- Small pin capacitance
- Quick switching time
- ●High voltage
- •Good two element characteristics

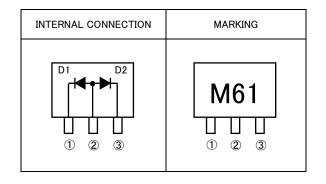
APPLICATION

For general high speed switching of audio machine, VTR.



MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Peak reverse voltage	V _{RM}	75	V	
DC reverse voltage	V _R	50	V	
Surge current(1 μ s)	I _{FSM}	4	А	
Peak forward current	I _{FM}	300	mA	
Average rectification current	Ι _ο	100	mA	
Total allowance dissipation	P _T	450	mW	
Junction temperature	Tj	+150	°C	
Storage temperature	Tstg	-55 ~ +150	°C	



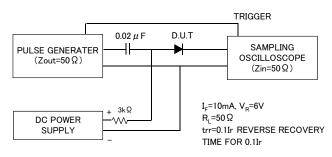
ELECTRICAL CHARACTERISTICS(Ta=25°C)

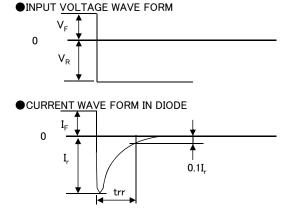
Parameter	Symbol	Test conditions	Limits			Uniit
			Min	Тур	Max	Uninc
Forward voltage	V _{F1}	I _F =10mA	-	0.77	0.9	
	V_{F2}	I _F =50mA	1	0.90	1.0	V
	V_{F3}	I _F =100mA	-	0.95	1.2	
Reverse current	I _R	V _R =50V	-	-	0.1	μA
Pin capacitance	C _t	V _R =0V, f=1MHz	-	2.8	4.0	pF
Reverse recovery time	trr	(Refer to test circuit)	-	-	4.0	ns

MC961

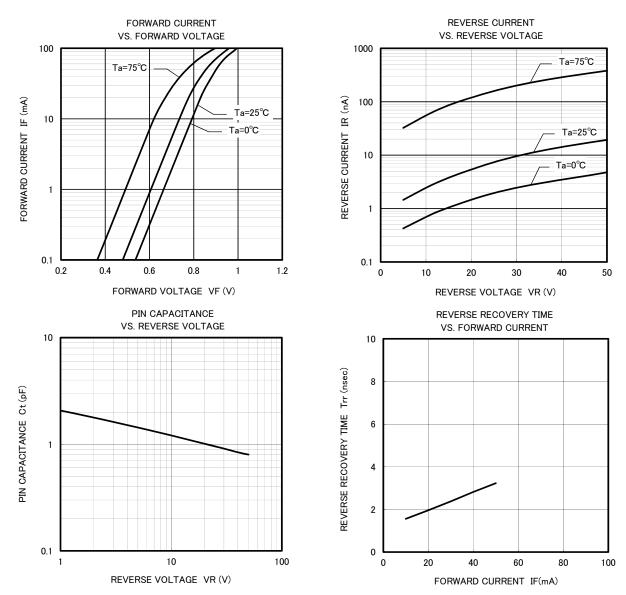
FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE(COMMON ANODE)

REVERSE RECOVERY TIME(trr)TEST CIRCUIT





TYPICAL CHARACTERISTICS



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