### <DIODE >

# MC982

FOR GENERAL SWITCHING APPLICATION SILICON EPITAXIAL TYPE(SERIES TYPE)

### DESCRIPTION

MC982 is a super mini package plastic seal type silicon epitaxial type double diode, especially designed for general switching application.

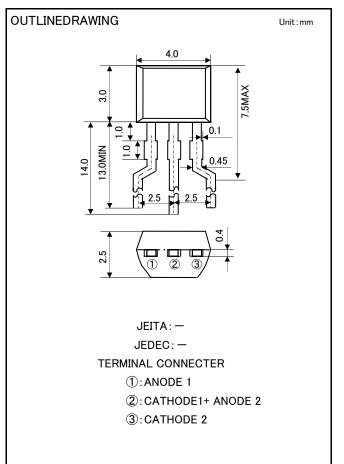
Double and small pin capacitance(2pieces), suitable for protect circuit, bias circuit.

#### FEATURE

Small pin capacitance

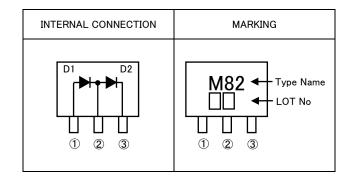
### APPLICATION

For general switching of audio machine, VTR.



### MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Peak reverse voltage	V <sub>RM</sub>	35	V	
DC reverse voltage	V <sub>R</sub>	30	V	
Surge current(1 $\mu$ s)	I <sub>FSM</sub>	4	А	
Peak forward current	I <sub>FM</sub>	300	mA	
Average rectification current	Ι <sub>ο</sub>	100	mA	
Total allowance dissipation	Ρ <sub>τ</sub>	450	mW	
Junction temperature	Tj	+150	°C	
Storage temperature	Tstg	-55 <b>~</b> +150	°C	



### ELECTRICAL CHARACTERISTICS(Ta=25°C)

Parameter	Symbol	Test conditions		Limits			Uniit	
Farameter				Min	Тур	Max	Unit	
Forward voltage	V <sub>F1</sub>	I <sub>F</sub> =10mA		-	0.75	1.0	v	
	$V_{F2}$	I <sub>F</sub> =50mA		-	0.85	1.2		
	$V_{F3}$	I <sub>F</sub> =100mA		-	0.90	1.4		
Reverse current	I <sub>R</sub>	V <sub>R</sub> =30V		-	-	0.1	μA	
Pin capacitance	C <sub>t</sub>	V <sub>R</sub> =0V, f=1MHz	D1	-	6	I	рF	
			D2	_	10	-		

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FORWARD CURRENT VS. FORWARD VOLTAGE(D2)

# FORWARD CURRENT VS. FORWARD VOLTAGE(D1) 100 100 FORWARD CURRENT IF (mA) FORWARD CURRENT IF (mA) 10 10 1 1 0.1 0.1 0.2 0.4 0.6 0.8 1 1.2 FORWARD VOLTAGE VF (V) PIN CAPACITANCE VS. REVERSE VOLTAGE(D1) 10 PIN CAPACITANCE Ct (pF) PIN CAPACITANCE Ct (pF) 1 1 0.1 0.1 10 100 1 REVERSE VOLTAGE VR (V) REVERSE CURRENT VS. REVERSE VOLTAGE 1 REVERSE CURRENT IR (nA) 00 10

### TYPICAL CHARACTERISTICS (Ta=25°C)

0.001 L

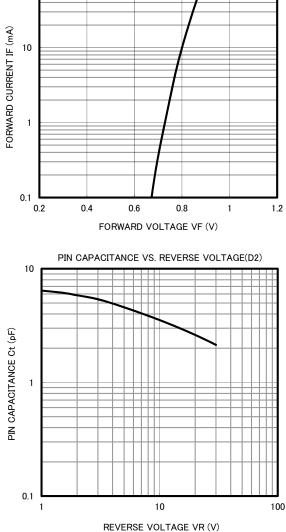
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REVERSE VOLTAGE VR (V)

15

20





25

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