# FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE

## DESCRIPTION

MC2834 is a super mini package plastic seal type silicon epitaxial type diode,especially designed for high speed switching application.

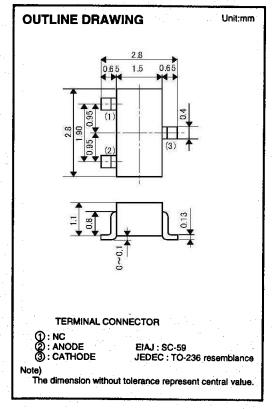
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter , clipper application.

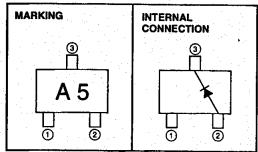
## **FEATURE**

- Small pin capacitance
- ●Quick switching time
- Small outline package for mounting
- High voltage
- Super mini package for mounting

## **APPLICATION**

For general high speed switching of audio machine, VCR.





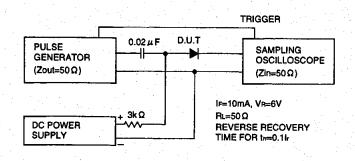
# MAXIMUM RATINGS (Ta=25°C)

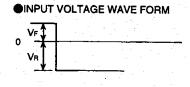
Symbol	Parameter	Parameter Ratings			
VRM	Peak reverse voltage 75		V		
VR	DC reverse voltage	50	V		
İFSM	Surge current(1 µs)	4	A		
İFM	Peak forward current	300	mA		
lo	Average rectification current	100	mA		
Рт	Total allowable dissipation(Ta=25°C)	150	mW		
Ti	Junction temperature	+125	c		
Tstg	Storage temperature	-55 to +125			

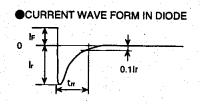
# **ELECTRICAL CHARACTERISTICS (Ta=25°C)**

Symbol	Parameter	Test condition	Limits			Unit
		Tool donations	Min	Тур	Max	Onic
VF1	Forward voltage		\$	0.68	0.9	٧
VF2	Forward voltage	1 F = 50mA		0.82	1.0	V
VF3	Forward voltage	1 F =100mA		0.92	1.2	V
la .	Reverse current	VR =50V	1	<del></del>	0.1	μΑ
Ct	Pin capacitance	VR =0,f=1MHz		1.3	4.0	ρF
trr	Reverse recovery time	(Refer to test circuit)	1		4.0	ns

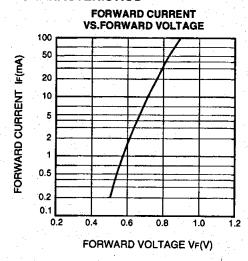
## REVERSE RECOVERY TIME(trr)TEST CIRCUIT

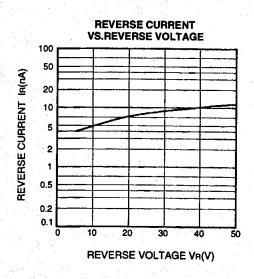


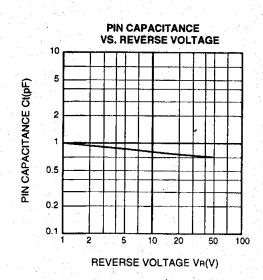


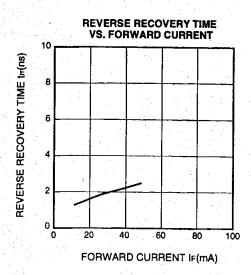


## TYPICAL CHARACTERISTICS











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