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.

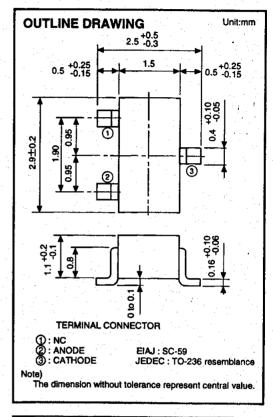
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter , clipper application.

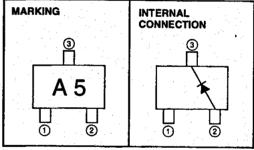
FEATURE

- 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.





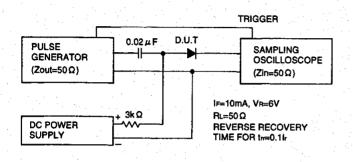
MAXIMUM RATINGS (Ta=25°C)

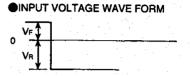
Symbol	Parameter	Ratings	Unit V	
VRM	Peak reverse voltage	75		
Ve	DC reverse voltage 50 Surge current(1 μs) 4 Peak forward current 300		V	
IFSM			A	
İFM			mA	
lo	Average rectification current	100	mA mW	
Рт	Total allowable dissipation(Ta=25°C)	150		
Ti Junction temperature		+125	c	
Tstg	Storage temperature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

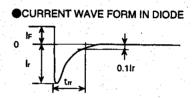
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits			Unit
		Tool conditions		Min	Typ	Max	וויט
VF1	Forward voltage	F =10mA			0.68	0.9	V
VF2	Forward voltage	1 F =50mA		1	0.82	1.0	V
VF3	Forward voltage	IF=100mA		T	0.92	1.2	V
la .	Reverse current	VR =50V				0.1	μΑ
Ct	Pin capacitance	VR =0,f=1MHz			1.3	4.0	pF
tır	Reverse recovery time	(Refer to test circuit)		† · · · - · · · · · · ·		4.0	ns

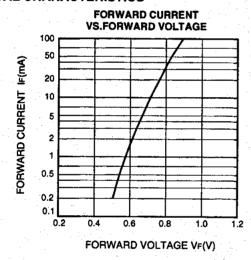
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

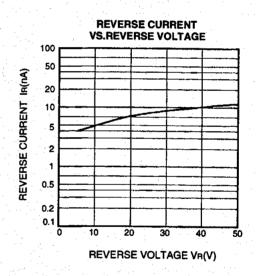


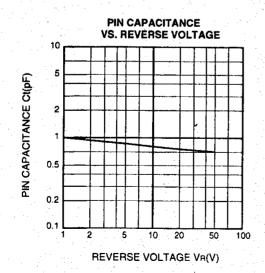


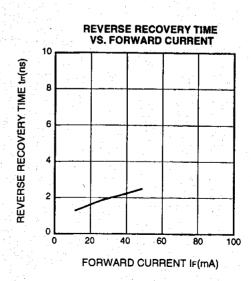


TYPICAL CHARACTERISTICS











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