FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE

DESCRIPTION

MC2833 is a super mini package plastic seal type silicon epitaxial type diode, especially designed for high speed switching application.

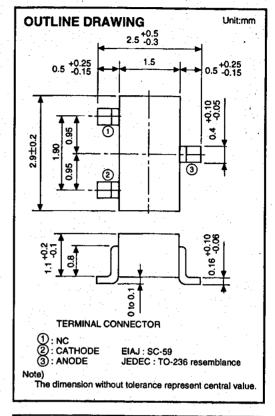
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter, clipper application.

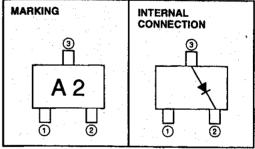
FEATURE

- 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)

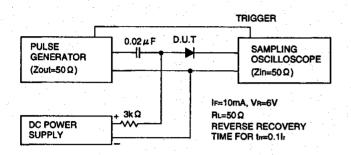
Symbol	Parameter	Ratings	Unit	
VRM	Peak reverse voltage	ak reverse voltage 75		
VR	DC reverse voltage 50 Surge current(1 \(\mu s\)) 4		V	
IFSM			Α	
IFM	Peak forward current	300	mA	
О	Average rectification current	100	mA mW	
Pτ	Total allowable dissipation(Ta=25°C)	150		
Tj	Junction temperature	+125	r	
Tstg	Storage temperature	-55 to +125	°C	

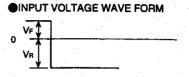
ELECTRICAL CHARACTERISTICS (Ta=25°C)

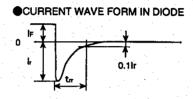
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	Oriit
VF1	Forward voltage	i F =10mA		0.77	0.9	٧
VF2	Forward voltage	I F =50mA		0.90	1.0	V
VF3	Forward voltage	I F =100mA		0.95	1.2	V
IR	Reverse current	VR =50V			0.1	μΑ
Ct	Pin capacitance	Vn =0,f=1MHz		2.8	4.0	pF
trr	Reverse recovery time	(Refer to test circuit)			4.0	ns

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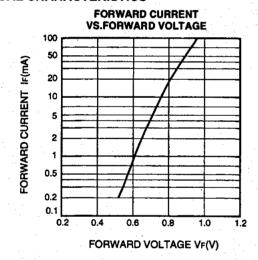
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

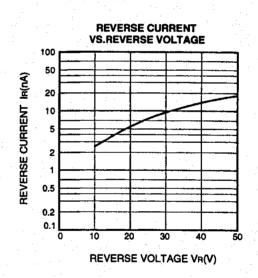


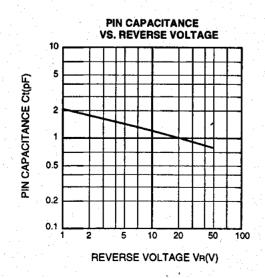


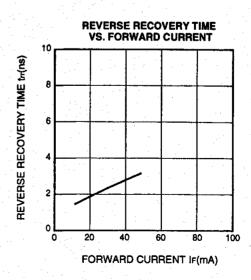


TYPICAL CHARACTERISTICS











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