FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE

DESCRIPTION

MC2831 is a super mini package plastic seal type silicon epitaxial type diode, especially designed for high speed switching application.

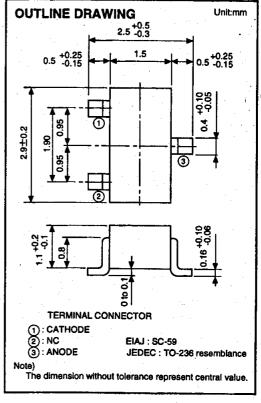
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter , clipper application.

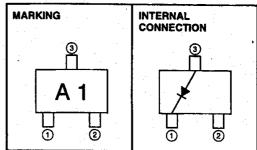
FEATURE

- 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.





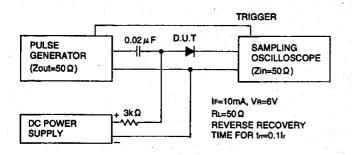
MAXIMUM RATINGS (Ta=25°C)

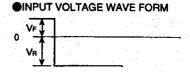
Symbol	Parameter	Ratings	Unit	
Vям	Peak reverse voltage	75	V	
VR	DC reverse voltage	50	V	
IFSM	Surge current(1 µs)	4	A	
lғм	Peak forward current	300	mA	
lo	Average rectification current	100	mA	
Pτ	Total allowable dissipation(Ta=25°C)	150	mW	
Ti	Junction temperature	+125	°C	
Tstg	Storage temperature	-55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

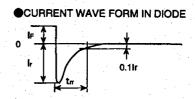
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		
			Mir	Тур	Max	Unit
VF1	Forward voltage	IF=10mA	· ·	0.77	0.9	V
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	μA
Ct	Pin capacitance	Vn =0,f=1MHz		2.8	4.0	ρF
trr	Reverse recovery time	(Refer to test circuit)		_	4.0	ns

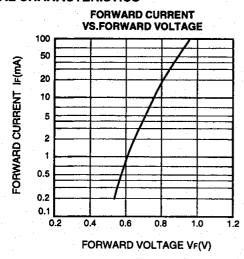
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

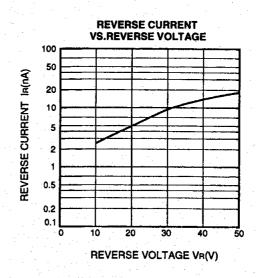


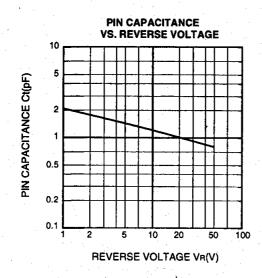


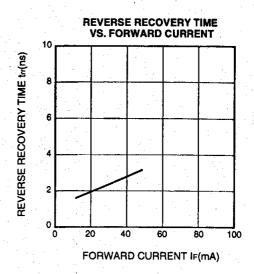


TYPICAL CHARACTERISTICS











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