FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE

DESCRIPTION

MC2842 is a super mini package plastic seal type silicon epitaxial type diode,especially designed for high speed switching application.

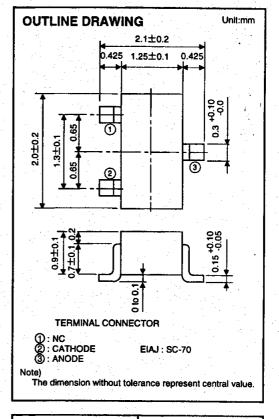
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter, clipper application.

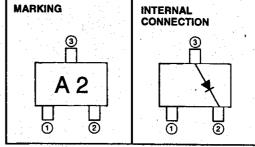
FEATURE

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

APPLICATION

For general high speed switching of audio machine, VCR.





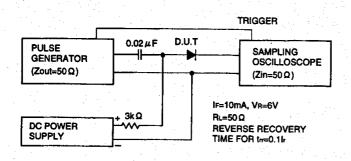
MAXIMUM RATINGS (Ta=25°C)

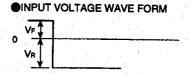
Symbol	Parameter	Parameter Ratings	
VRM	Peak reverse voltage	75	V
VR	DC reverse voltage	50	V
IFSM	Surge current(1 µs)	4	A
lfm :	Peak forward current	300	mA
lo	Average rectification current	100	mA
₽⊤	Total allowable dissipation(Ta=25°C)	150	mW
Tj.	Junction temperature	+125	c
Tstg	Storage temperature	-55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

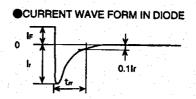
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits		11-14	
			Min	Typ	Max	Unit
VF1	Forward voltage	IF=10mA		0.77	0.9	V
VF2	Forward voltage	IF=50mA		0.90	1.0	V
VF3	Forward voltage	IF=100mA		0.95	1.2	v
lR	Reverse current	VR =50V	-	1	0.1	μΑ
Ct	Pin capacitance	Vn =0,f=1MHz		2.8	4.0	ρF
trr	Reverse recovery time	(Refer to test circuit)			3.0	ns

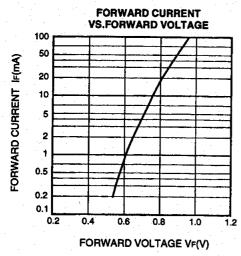
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

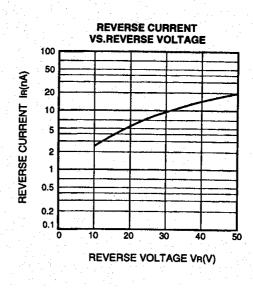


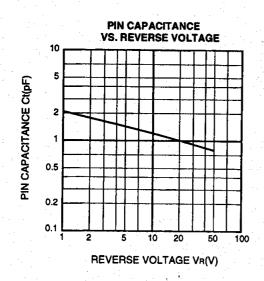


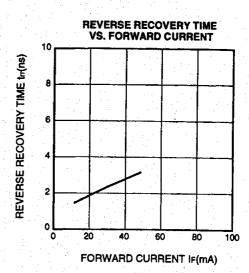


TYPICAL CHARACTERISTICS











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