FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE

DESCRIPTION

MC2841 is a super mini package plastic seal type silicon epitaxial type diode, especially designed for high speed switching application.

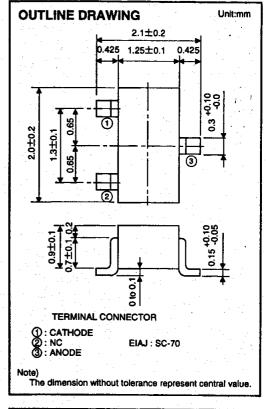
Due to the small pin capacitance, short switching time (reverse recovery time), it is most sultable for high speed switching application and limitter, clipper application.

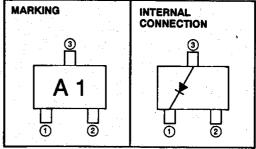
FEATURE

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

APPLICATION

For general high speed switching of audio machine, VCR.





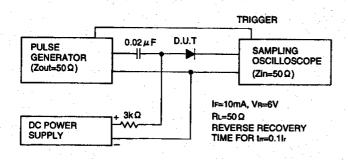
MAXIMUM RATINGS (Ta=25°C)

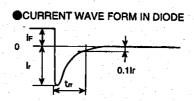
Symbol	Parameter	Ratings	Unit
VRM	Peak reverse voltage	75	V
VR	DC reverse voltage	50	V
IFSM ·	Surge current(1 μs)		A
IFM	Peak forward current	300	mA
lo	Average rectification current	100	mA
Рт	Total allowable dissipation(Ta=25°C)	150	mW
Tj	Junction temperature	+125	८
Tstg	Storage temperature	-55 to +125	c

ELECTRICAL CHARACTERISTICS (Ta=25°C)

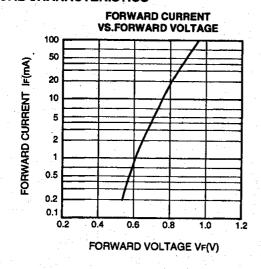
Symbol	Parameter	Test conditions		Limits		
			Min	Тур	Max	Unit
VF1	Forward voltage	I F =10mA		0.77	0.9	V
VF2	Forward voltage	I F =50mA		0.90	1.0	V
VF3	Forward voltage	I F ≃100mA		0.95	1.2	V
İR	Reverse current	VR =50V		``	0.1	μA
Ct	Pin capacitance	VR =0,f=1MHz		2.8	4.0	pF
trr	Reverse recovery time	(Refer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

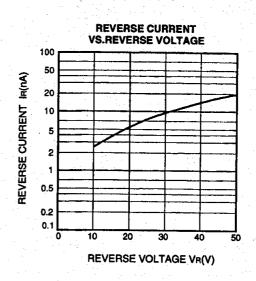
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

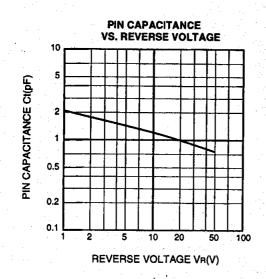


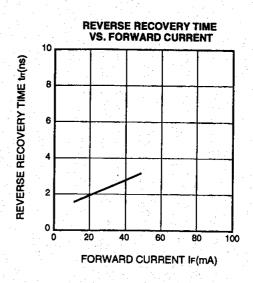


TYPICAL CHARACTERISTICS











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