# FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE(COMMON ANODE)

#### **DESCRIPTION**

MC2846 is a super mini package plastic seal type silicon epitaxial type double diode, especially designed for high speed switching application.

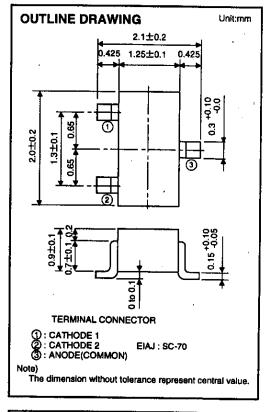
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter, clipper application.

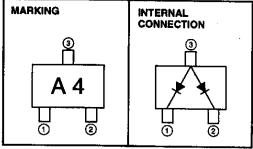
#### **FEATURE**

- Small pin capacitance
- Quick switching time
- Good two elements characteristics
- ●High voltage
- Duble and super mini package for mounting

#### **APPLICATION**

For general high speed switching of audio machine, VCR.





#### MAXIMUM RATINGS (Ta=25°C)

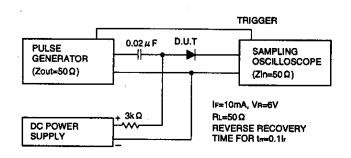
Symbol	Parameter	Ratings	Unit
VRM	Peak reverse voltage	75	V
VR	DC reverse voltage	50	V
IFSM	Surge current(1 µs)	4	A
İFM	Peak forward current	300	mA
lo	Average rectification current	100	mA
P⊤	Total allowable dissipation(Ta=25°C)	150	mW
Tj	Junction temperature	+125	र
Tatg	Storage temperature	-55 to +125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

#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

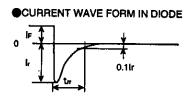
Symbol	Parameter	Test conditions	Limits			1 1 - 14
			Min	Тур	Max	Unit
VFt	Forward voltage	IF=10mA		0.77	0.9	V
VF2	Forward voltage	I F =50mA		0.90	1.0	v
VF3	Forward voltage	F =100mA		0.95	1.2	· ·
IR.	Reverse current	Vn ≈50V		0.00	0.1	μA
Ct	Pin capacitance	Vn =0,f=1MHz		2.8	4.0	pF
ter	Reverse recovery time	(Refer to test circuit)			4.0	ns

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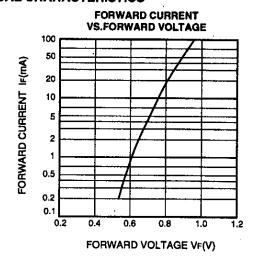
## REVERSE RECOVERY TIME(trr)TEST CIRCUIT

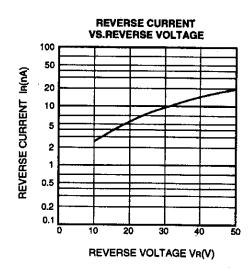


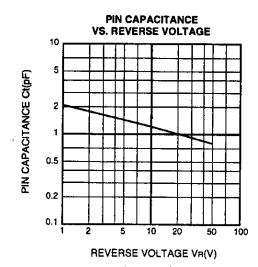
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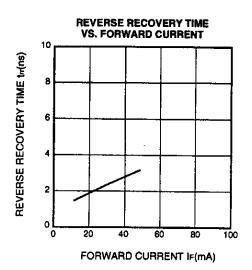


#### **TYPICAL CHARACTERISTICS**











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