**(SMALL-SIGNAL DIODE)** 

MC2844

FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE

### DESCRIPTION

MC2844 is a super mini package plastic seal type silicon epitaxial type diode especially designed for high speed switching application.

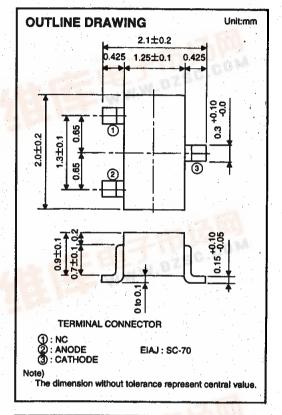
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter , clipper application.

### **FEATURE**

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

### **APPLICATION**

For general high speed switching of audio machine, VCR.



# MARKING INTERNAL CONNECTION A 5 The state of the state

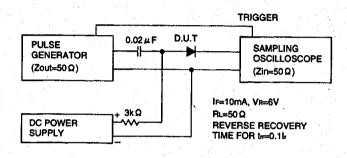
## MAXIMUM RATINGS (Ta=25°C)

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

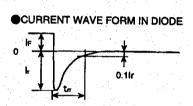
### ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		
		1 est conditions	Min	Тур	Max	Unit
VF1	Forward voltage	I = 10mA		0.72	0.9	V
VF2	Forward voltage	I F =50mA		0.85	1.0	V
VF3	Forward voltage	I = 100mA		0.90	1.2	V
lR	Reverse current	VR =50V	1		0.1	μA
Ct	Pin capacitance	VR =0,f=1MHz	1	1.3	4.0	pF
PDF	Reverse recovery time	(Refer to test circuit)		T -	3.0	ns

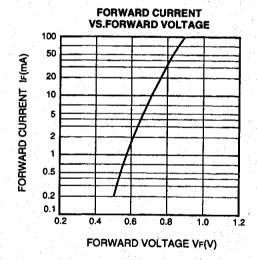
# REVERSE RECOVERY TIME(trr)TEST CIRCUIT

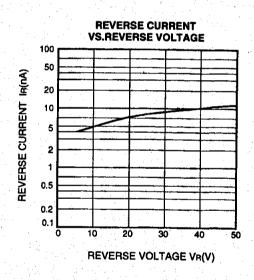


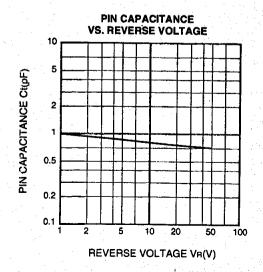
# ●INPUT VOLTAGE WAVE FORM 0 VF VR

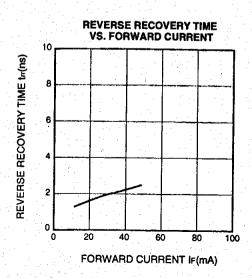


# TYPICAL CHARACTERISTICS











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