# MC2852

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

### **DESCRIPTION**

MC2852 is a super mini 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
- super mini package for mounting
- High voltage

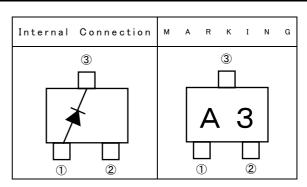
# **APPLICATION**

For general high speed switching of audio machine, VCR.

# JEITA: SC-75A TERMINAL CONNECTER ①: ATHODE ②: NC ③: CATHODE Note) The dimension without tolerance represent central value.

### MAXIMUM RATINGS(Ta=25°C)

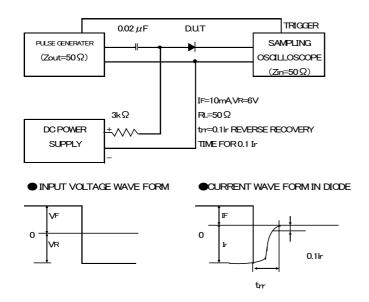
Symbol	Parameter	Ratings	Unit	
$V_{RM}$	Peak reverse voltage	75	٧	
$V_R$	DC reverse voltage	50	٧	
I <sub>FM</sub>	Peak forward current	300	mA	
I o	Average rectification current	100	mA	
I <sub>FSM</sub>	Surge current(10msec)	4	Α	
P <sub>T</sub>	Total allowance dissipation(Ta=25°C)	125	mW	
T <sub>j</sub>	Junction temperature	+150	°C	
$T_{stg}$	Storage temperature	-55 <b>~</b> +150	°C	



# ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
Parameter			Min	Тур	Max	Offic
	$V_{F1}$	I <sub>F</sub> =10mA	-	0.72	0.9	
Forward voltage	$V_{F2}$	I <sub>F</sub> =50mA	-	0.85	1.0	٧
	$V_{F3}$	I <sub>F</sub> =100mA	-	0.9	1.2	
Reverse current	$\mathbf{I}_{R1}$	V <sub>R</sub> =50V	-	-	0.1	μΑ
Pin capacitance	C <sub>T</sub>	V <sub>R</sub> =0V, f=1MHz	-	1.3	4.0	pF
Reverse recovery time	trr	Refer to test circuit	-	_	3.0	ns

# Reverse recovery time(trr) TEST CIRCUIIT





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