MC2837

FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE(SERIES TYPE)

DESCRIPTION

MC2837 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

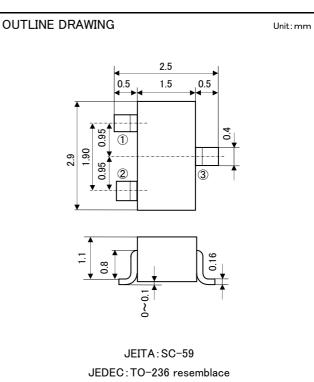
time),It is most suitable for high speed switching application and limitter,clipper application.

FEATURE

- Small pin capacitance
- $lacebox{Quick}$ switching time
- ●High voltage
- •Series connected two elements
- Good two element characteristics
- Double and super mini package for mounting

APPLICATION

For general high speed switching of audio machine, VCR.



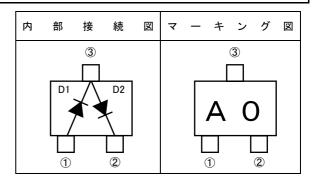
IEDEC:TO-236 resemblace TERMINAL CONNECTER ①:ANODE1 ②:CATHODE2

3: CATHODE1+ANODE2

Note)

The dimension without tolerance represent central value.

Symbol	Parameter	Ratings	Unit					
V _{RM}	Peak reverse voltage	85	V					
V _R	DC reverse voltage	80	V					
I _{FM}	Peak forward current	300	mA					
Ιo	Average rectificationcurrent	100	mA					
I _{FSM}	Surge current(10msec)	2	А					
P _T	Total allowance dissipation(Ta=25°C)	150	mW					
Tj	Junction temperature	+125	°C					
T _{stg}	Storage temperature	-55 ~ +125	°C					



ISAHAYA ELECTRONICS CORPORATION

MAXIMUM RATINGS(Ta=25°C)

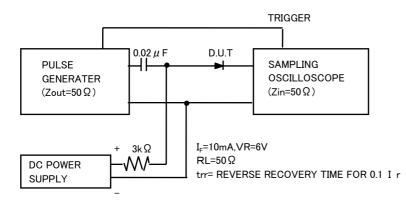
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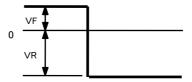
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
Farameter			Min	Тур	Max	Onic
	V_{F1}	I _F =1mA	1	0.60	1	V
Forward voltage	V_{F2}	I _F =10mA	-	0.72	-	
	V_{F3}	I _F =100mA	-	0.90	1.20	
Reverse current	I _{R1}	V _R =30V	-	-	0.1	μA
Reverse current	I _{R2}	V _R =80V	-	-	0.5	
Pin capacitance	C _T	V _R =0V, f=1MHz	-	0.9	3.0	pF
Reverse recovery time	trr	I_F =10mA(Refer to test circuit)	_	1.6	4.0	ns

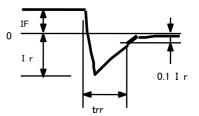
REVERSE RECOVERY TIME(trr)TEST CIRCUIT



●INPUT VOLTAGE WAVE FORM



●CURRENT WAVE FORM IN DIODE





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