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

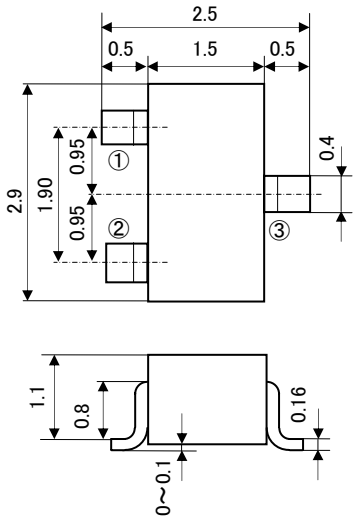
- ●Small pin capacitance
- ●Quick switching time
- ●High voltage
- ●Series connected two elements
- ●Good two element characteristics
- ●Double and super mini package for mounting

APPLICATION

For general high speed switching of audio machine,VCR.

OUTLINE DRAWING

Unit:mm

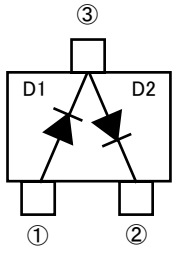
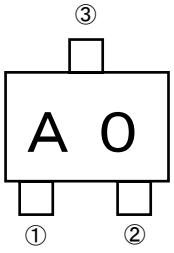


JEITA:SC-59
JEDEC:TO-236 resemblace
TERMINAL CONNECTER
①:ANODE1
②:CATHODE2
③:CATHODE1+ANODE2

Note)
The dimension without tolerance represent central value.

MAXIMUM RATINGS(Ta=25℃)

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
I_O	Average rectificationcurrent	100	mA
I_{FSM}	Surge current(10msec)	2	A
P_T	Total allowance dissipation(Ta=25℃)	150	mW
T_j	Junction temperature	＋125	℃
T_{stg}	Storage temperature	−55～＋125	℃

内　部　接　続　図	マ　ー　キ　ン　グ　図
	

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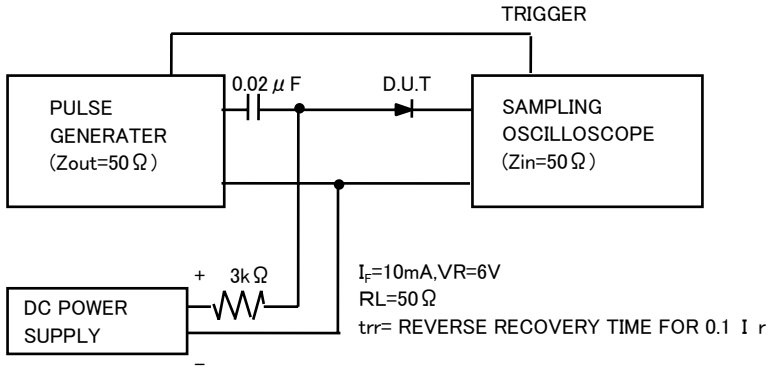
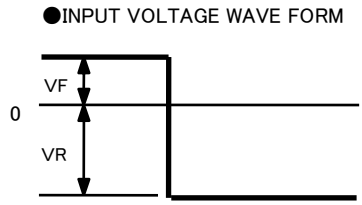
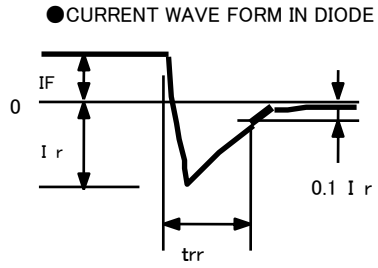
ELECTRICAL CHARACTERISTICS(Ta=25℃)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
Forward voltage	V_{F1}	I_F=1mA	–	0.60	–	V
	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
	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







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