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

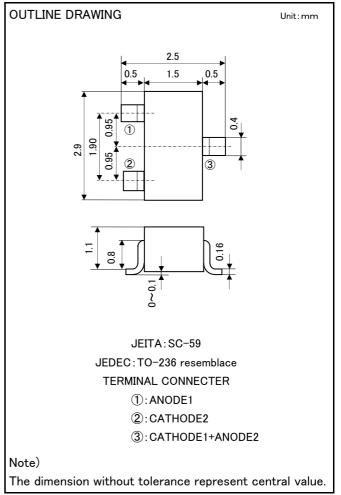
- Small pin capacitance
- Quick switching time
- ●High voltage
- Series connected two elements
- Good two element characteristics
- Double and super mini package for mounting

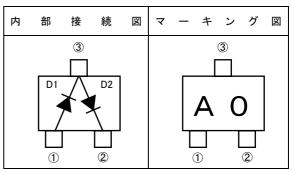
APPLICATION

For general high speed switching of audio machine, VCR.

MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	
V_{RM}	Peak reverse voltage	85	٧
V_R	DC reverse voltage	80	٧
I _{FM}	Peak forward current	300	mA
I o	Average rectificationcurrent 100		mA
I _{FSM}	Surge current(10msec)	2	Α
P_{T}	Total allowance dissipation(Ta=25°C) 150		mW
T _j	Junction temperature	+125	°C
T_{stg}	Storage temperature	-55 ~ +125	°C

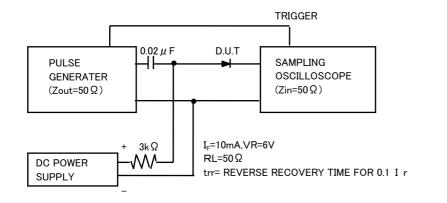


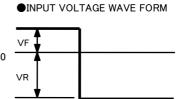


ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
Farameter			Min	Тур	Max	Onic
	V_{F1}	I _F =1mA	-	0.60	-	
Forward voltage	V_{F2}	I _F =10mA	ı	0.72	-	
	V_{F3}	I _F =100mA	-	0.90	1.20	
Reverse current	I_{R1}	V _R =30V	-	-	0.1	μΑ
Neverse current	I _{R2}	V _R =80V	-	-	0.5	
Pin capacitance	C _⊤	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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