MC2837-T150

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

AEC-Q101 Compliance

DESCRIPTION

MC2837 is a super mini package plastic seal type silicon epitaxial type double diode, especially designed for high speed switching application.

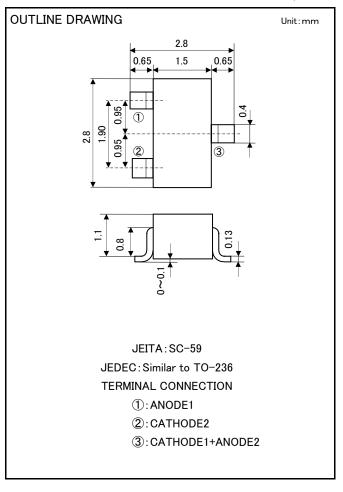
Due to the small pin capacitance, short switching time (reverse recovery time), It is most suitable for high speed switching application and limitter, clipper application.

FEATURE

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

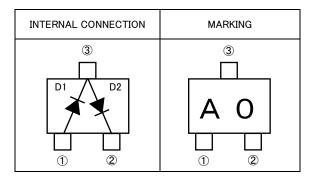
APPLICATION

For general high speed switching of audio machine, VTR.



MAXIMUM RATINGS (Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Peak reverse voltage	V_{RM}	85	V	
DC reverse voltage	V_R	80	٧	
Peak forward current	I _{FM}	300	mA	
Average rectification current	I o	100	mA	
Surge current(1 μ sec)	I _{FSM}	2	Α	
Total allowance dissipation	P _T	200	mW	
Junction temperature	T _j	+150	သိ	
Storage temperature	T_{stg}	-55 ~ +150	°C	

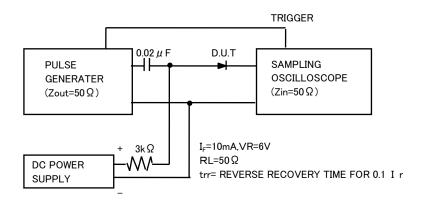


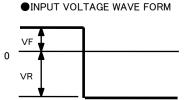
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter Sy	Symbol	Test conditions	Limits			Unit
	Symbol		Min	Тур	Max	Offic
Forward voltage	V_{F1}	I _F =1mA	-	0.60	-	٧
	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	μΑ
	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	(Refer to test circuit)	-	1.6	4.0	ns

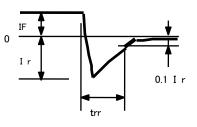
FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE(SERIES TYPE)

REVERSE RECOVERY TIME(trr)TEST CIRCUIT

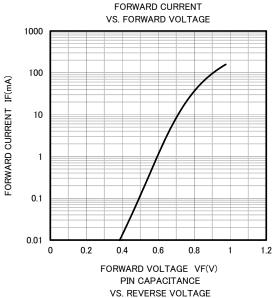


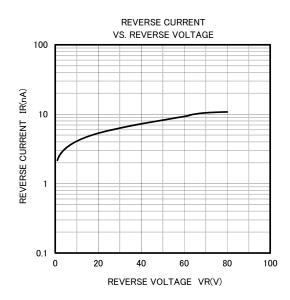


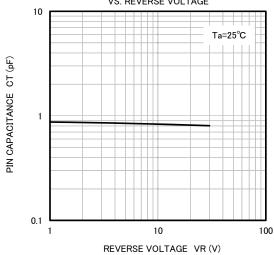
● CURRENT WAVE FORM IN DIODE



TYPICAL CHARACTERISTICS







Keep safety first in your circuit designs!

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