MC2838-T150

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

AEC-Q101 Compliance

DESCRIPTION

MC2838 is a super mini package plastic seal type silicon epitaxial type double diode, especially designed for high speed switching application.

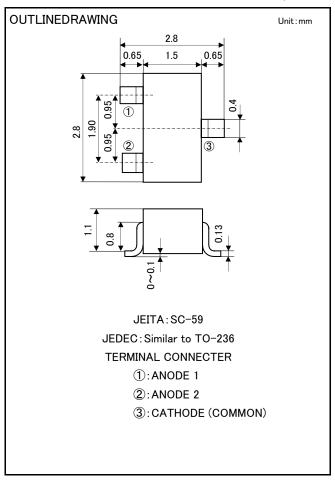
Due to the small pin capacitance, short switching time (reverse recovery time), It is most suitable for high speed switching application and limiter, clipper application.

FEATURE

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

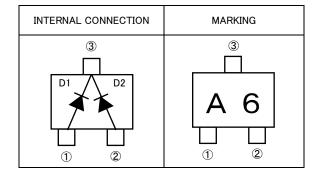
APPLICATION

For general high speed switching of audio machine, VTR.



MAXIMUM RATINGS (Ta=25°C)

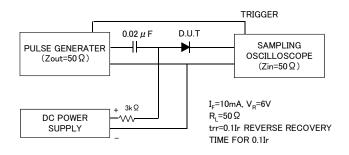
Parameter	Symbol	Ratings	Unit
Peak reverse voltage	V_{RM}	75	٧
DC reverse voltage	V_R	50	٧
Surge current(1μsec)	I _{FSM}	4	Α
Peak forward current	I FM	300	mA
Average rectification current	I o	100	mA
Total dissipation	P_{T}	200	mW
Junction temperature	T _j	+150	လူ
Storage temperature	Tstg	-55 ~ +150	°C

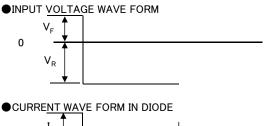


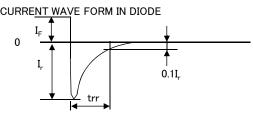
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter S	Symbol	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
Forward voltage	V_{F1}	I _F =10mA	-	0.72	0.9	
	V_{F2}	I _F =50mA	-	0.85	1.0	٧
	V_{F3}	I _F =100mA	-	0.90	1.2	
Reverse current	\mathbf{I}_{R}	V _R =50V	-	-	0.1	μΑ
Pin capacitance	C _t	V _R =0V, f=1MHz	-	1.3	4.0	pF
Reverse recovery time	trr	(Refer to test circuit)	-	_	3.0	ns

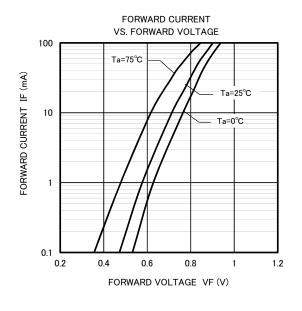
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

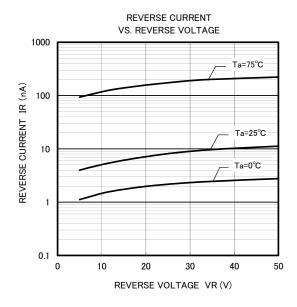


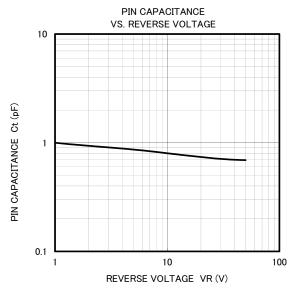


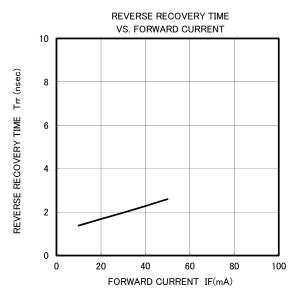


TYPICAL CHARACTERISTICS









Keep safety first in your circuit designs!

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