MC2838

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

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 limitter, clipper application.

FEATURE

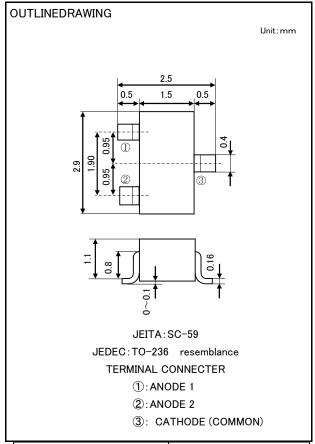
- Small pin capacitance
- Quick switching time
- High voltage
- Series connected two elements
- Good two element characteristics
- Double and super mini package for mounting

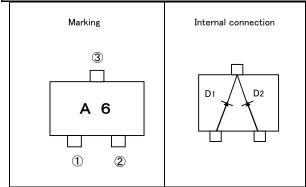
APPLICATION

For general high speed switching of audio machine, VCR.

MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit	
V_{RM}	Peak reverse voltage	75	٧	
V_R	DC reverse voltage	50	٧	
I _{FSM}	Surge current(1 μ s)	4	Α	
I _{FM}	Peak forward current	300	mA	
I o	Average rectification current	100	mA	
P _T	Total allowance dissipation(Ta=25°C)	200	mW	
T _j	Junction temperature	+150	လူ	
Tstg	Storage temperature	-55 ~ +150	လူ	

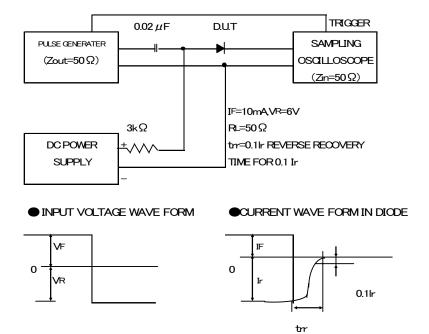


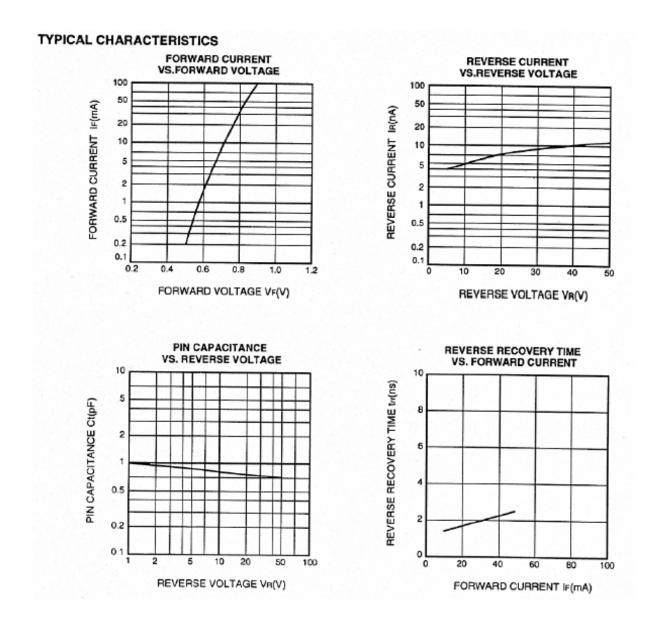


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ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Uniit
Farameter			Min	Min	Min	Offile
	V_{F1}	I _F =10mA	ı	0.72	0.9	V
Forward voltage	V_{F2}	I _F =50mA	ı	085	1.0	
	V_{F3}	I _F =100mA	ı	0.90	1.2	
Reverse current	I_{R}	V _R =50V	ı	ı	0.1	μΑ
Pin capacitance	C_{t}	V _R =0V, f=1MHz	ı	1.3	4.0	pF
Reverse recovery time	trr	(Refer to test circuit)	-	_	3.0	ns







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