MC2846

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

DESCRIPTION

MC2846 is a super mini package plastic seal type silicon epitaxial type double diode, especially designed for high speed switching application.

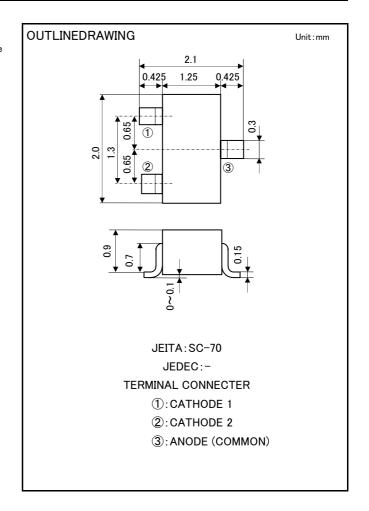
Due to the small pin capacitance, short switching time (reverse recovery time), It is most suitable for high speed switching application and limitter, clipper application.

FEATURE

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

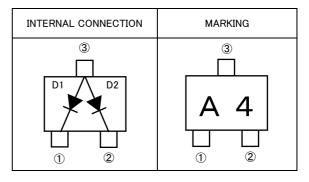
APPLICATION

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 allowance dissipation	P_{T}	150	mW
Junction temperature	T _j	+150	လူ
Storage temperature	Tstg	-55 ~ + 150	္



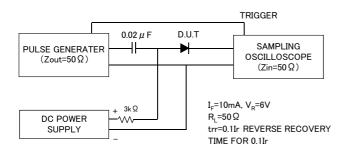
ELECTRICAL CHARACTERISTICS (Ta=25°C)

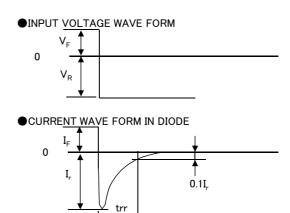
Parameter	Symbol	Test conditions	Limits			Uniit
			Min	Тур	Max	Unlit
Forward voltage	V_{F1}	I _F =10mA	-	0.77	0.9	
	V_{F2}	I _F =50mA	-	0.90	1.0	٧
	V_{F3}	I _F =100mA	-	0.95	1.2	
Reverse current	I_{R}	V _R =50V	-	-	0.1	μΑ
Pin capacitance	C _t	V _R =0V, f=1MHz	-	2.8	4.0	pF
Reverse recovery time	trr	(Refer to test circuit)	-	-	4.0	ns

MC2846

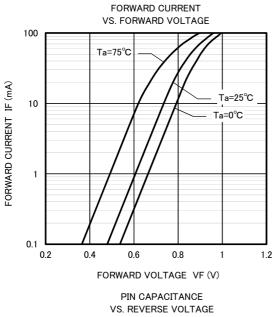
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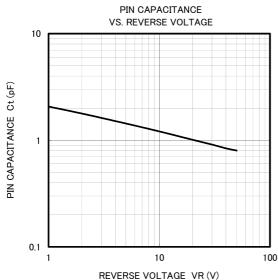
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

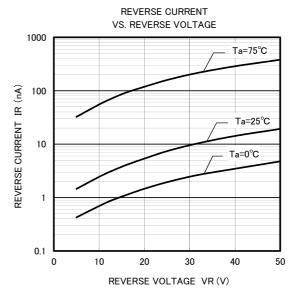


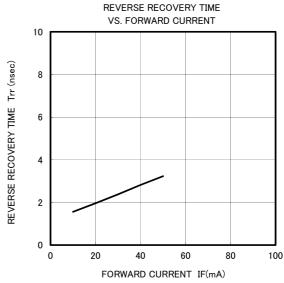


TYPICAL CHARACTERISTICS











Keep safety first in your circuit designs!

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