MC2856

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

DESCRIPTION

MC2856 is a super mini package plastic seal type silicon epitaxial type double diode, especially designed for high speed switching application.

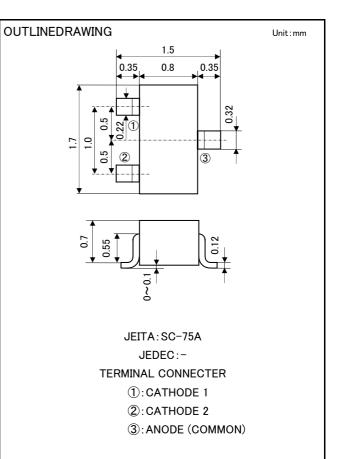
Due to the small pin capacitance, short switching time (reverse recovery time), It is most suitable for high speed switching application and limitter, clipper application.

FEATURE

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

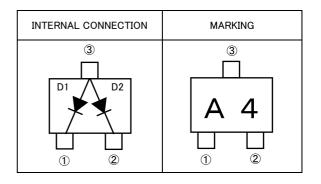
APPLICATION

For general high speed switching of audio machine, VTR.



MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Peak reverse voltage	V _{RM}	75	V
DC reverse voltage	V _R	50	V
Surge current(1 μ sec)	I _{FSM}	4	А
Peak forward current	I _{fm}	300	mA
Average rectification current	Ι _ο	100	mA
Total allowance dissipation	P _T	125	mW
Junction temperature	Tj	+150	°C
Storage temperature	Tstg	-55 ~ +150	°C



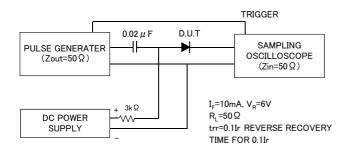
ELECTRICAL CHARACTERISTICS(Ta=25°C)

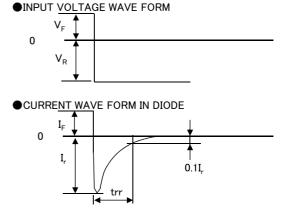
Parameter	Symbol	Test conditions	Limits			Uniit
			Min	Тур	Max	Unint
Forward voltage	V _{F1}	I _F =10mA	-	0.77	0.9	
	V_{F2}	I _F =50mA	-	0.90	1.0	V
	V_{F3}	I _F =100mA	-	0.95	1.2	
Reverse current	I _R	V _R =50V	-	-	0.1	μA
Pin capacitance	Ct	V _R =0V, f=1MHz	-	2.8	4.0	pF
Reverse recovery time	trr	(Refer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

MC2856

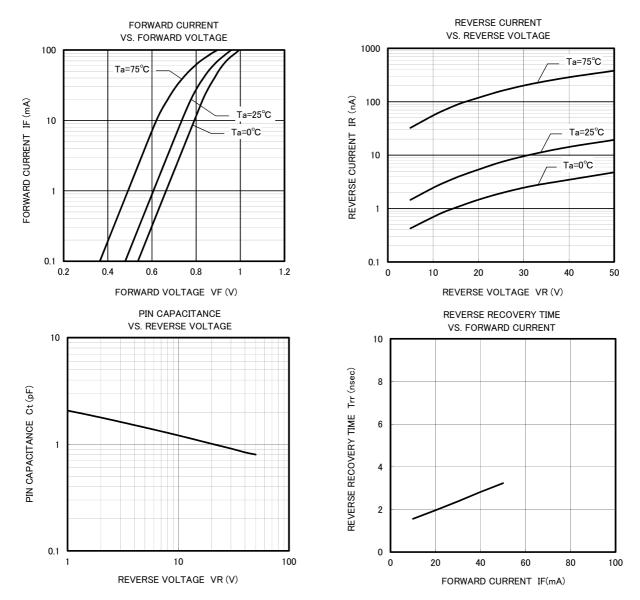
FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE(COMMON ANODE)

REVERSE RECOVERY TIME(trr)TEST CIRCUIT





TYPICAL CHARACTERISTICS



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