

MC2852

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

DESCRIPTION

MC2852 is a super mini 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

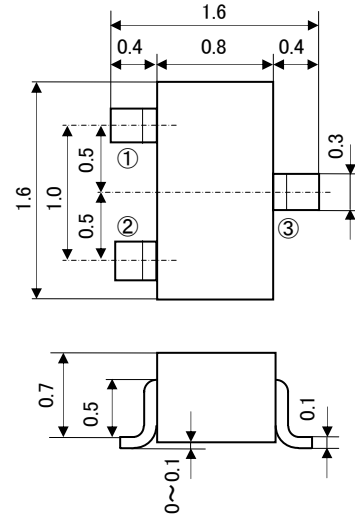
- Small pin capacitance
- Quick switching time
- super mini package for mounting
- High voltage

APPLICATION

For general high speed switching of audio machine,VCR.

OUTLINE DRAWING

Unit: mm



JEITA: SC-75A

TERMINAL CONNECTER

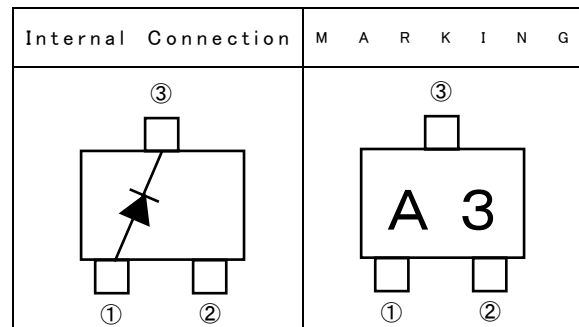
- ①:ATHODE
- ②:NC
- ③:CATHODE

Note)

The dimension without tolerance represent central value.

MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit
V_{RM}	Peak reverse voltage	75	V
V_R	DC reverse voltage	50	V
I_{FM}	Peak forward current	300	mA
I_O	Average rectification current	100	mA
I_{FSM}	Surge current(10msec)	4	A
P_T	Total allowance dissipation(Ta=25°C)	125	mW
T_j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55~+150	°C



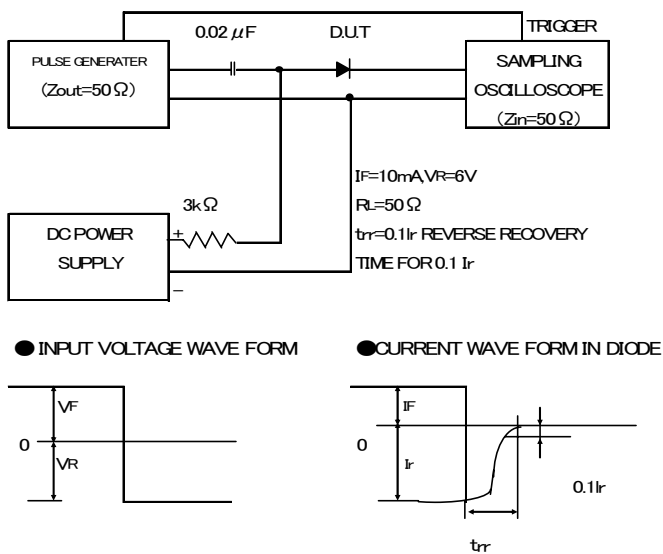
MC2852

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

ELECTRICAL CHARACTERISTICS (T_a=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
Forward voltage	V _{F1}	I _F =10mA	—	0.72	0.9	V
	V _{F2}	I _F =50mA	—	0.85	1.0	
	V _{F3}	I _F =100mA	—	0.9	1.2	
Reverse current	I _{R1}	V _R =50V	—	—	0.1	μA
Pin capacitance	C _T	V _R =0V, f=1MHz	—	1.3	4.0	pF
Reverse recovery time	t _{rr}	Refer to test circuit	—	—	3.0	ns

Reverse recovery time(t_{rr}) TEST CIRCUIT





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