MC2852

For High Speed Switching Application Silicon Epitaxial Type Ultra Super Mini

DESCRIPTION

MC2852 is a super mini silicon epitaxial type diode, especially designed for high speed switching application.

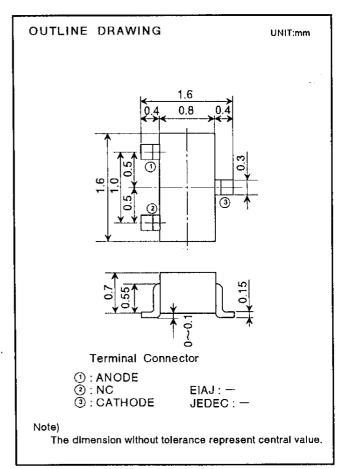
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter, clipper application.

FEATURE

- · Small pin capacitance
- · Quick switching time
- · Small outline package for mouting
- · High voltage
- · Super mini package for easy mounting

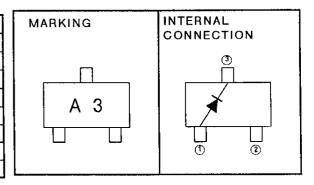
APPLICATION

For general high speed switching of audio machine, VCR.



MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT
VRM	Peak reverse voltage	75	V
VR	DC reverse voltage	50	V
l FSM	Surge current(1 µs)	4	Α
FM	Peak forward current	300	mA
Ιο	Average rectification current	100	mΑ
Рт	Total allowable dissipation	125	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55 to +125	°C



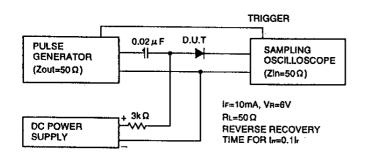
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	?ARAMETER	TEST CONDITIONS		Limits		
			MIN	TYP	MAX	UNIT
VF1	Forward voltage	1 F=10mA		0.68	0.9	V
VF2	Forward voltage	IF=50mA		0.82	1.0	V
VF3	Forward voltage	I = 100mA		0.92	1.2	V
l R	Reverse current	VR=50V			0.1	μA
C t	Pin capacitance	VR=0,f=1MHz		1.3	4.0	рF
trr	Reverse recovery time	(Refer to test circuit)			4.0	ns

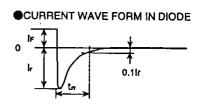
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Silicon Epitaxial Type Ultra Super Mini

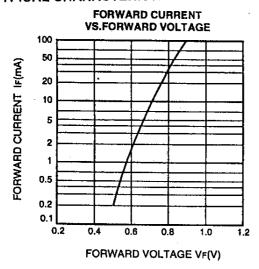
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

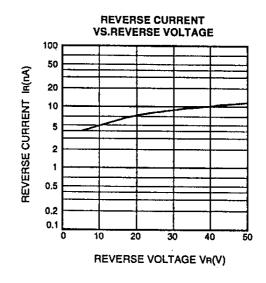


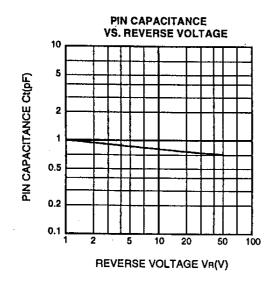
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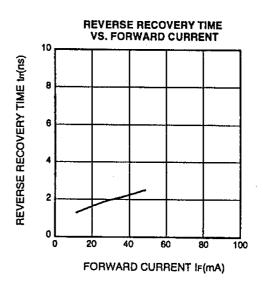


TYPICAL CHARACTERISTICS











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