MC2834

FOR HIGH SPEED SWITCHING APPLICATION SILICON EPITAXIAL TYPE

DESCRIPTION

MC2834 is a super mini package plastic seal type silicon epitaxial type diode,especially designed for high speed switching application.

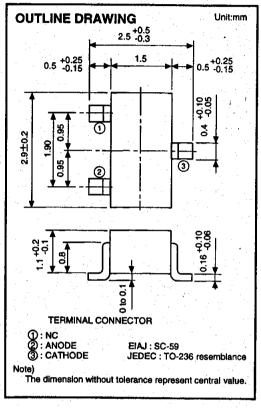
Due to the small pin capacitance, short switching time (reverse recovery time), it is most suitable for high speed switching application and limitter , clipper application.

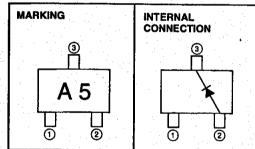
FEATURE

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

APPLICATION

For general high speed switching of audio machine, VCR.





MAXIMUM RATINGS (Ta=25°C)

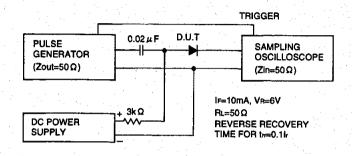
Symbol	Parameter	eter Ratings		
VRM	Peak reverse voltage	75	V V A mA	
VR	DC reverse voltage	50		
Irsm	Surge current(1 µs)	4		
İFM	Peak forward current	300		
lo	Average rectification current	100	mA	
Рт	Total allowable dissipation(Ta=25°C)	150	mW	
Tj .	Junction temperature	+125	c	
Tstg	Storage temperature	-55 to +125	°	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

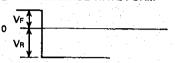
Symbol	Parameter	Test conditions	16	Limits		Unit	
		1 est condition	19	Min	Тур	Max	Onic
VF1	Forward voltage	F = 10mA			0.68	0.9	٧
VF2	Forward voltage	1 F = 50mA			0.82	1.0	V
VF3	Forward voltage	I F =100mA		†	0.92	1.2	V
la	Reverse current	VR =50V				0.1	μΑ
Ct	Pin capacitance	VR =0,f=1MHz		1	1.3	4.0	ρF
trr	Reverse recovery time	(Refer to test circuit)		···		4.0	ns

SILICON EPITAXIAL TYPE

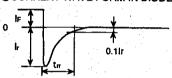
REVERSE RECOVERY TIME(trr)TEST CIRCUIT



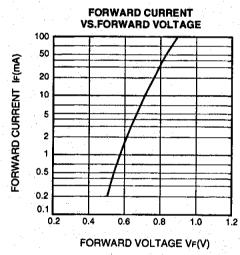
●INPUT VOLTAGE WAVE FORM



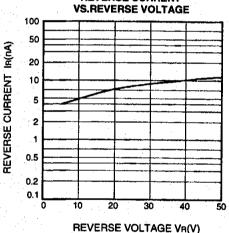
CURRENT WAVE FORM IN DIODE

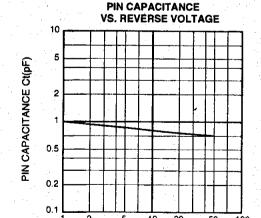


TYPICAL CHARACTERISTICS



REVERSE CURRENT 100





REVERSE VOLTAGE VR(V)

REVERSE RECOVERY TIME VS. FORWARD CURRENT 10 REVERSE RECOVERY TIME In(ns) 0 100 FORWARD CURRENT IF(mA)

查询"MC2834"供应商



http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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