# MC2858

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

### DESCRIPTION

MC2858 is a super mini package plastic seal type silicon epitaxial type double diode, especially designed for high speed switching application.

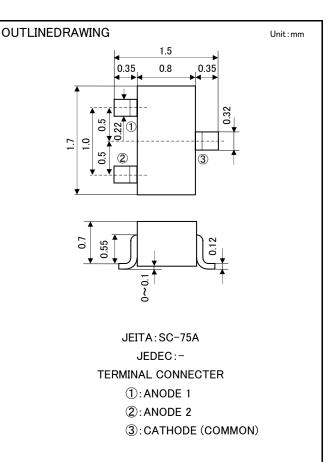
Due to the small pin capacitance, short switching time (reverse recovery time), It is most suitable for high speed switching application and limiter, clipper application.

### FEATURE

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

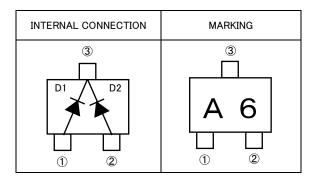
## APPLICATION

For general high speed switching of audio machine, VTR.



### MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Peak reverse voltage	$V_{\rm RM}$	75	V
DC reverse voltage	V <sub>R</sub>	50	V
Surge current(1 $\mu$ sec)	I <sub>fsm</sub>	4	А
Peak forward current	I <sub>FM</sub>	300	mA
Average rectification current	Ιo	100	mA
Total dissipation	P <sub>T</sub>	150	mW
Junction temperature	Tj	+150	°C
Storage temperature	Tstg	-55 <b>~</b> +150	°C



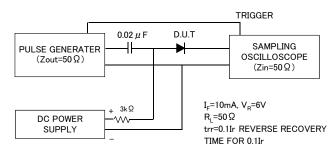
### ELECTRICAL CHARACTERISTICS(Ta=25°C)

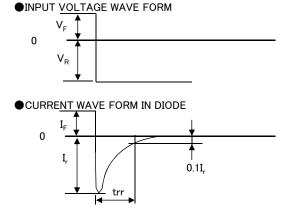
Parameter	Symbol	Test conditions	Limits			Uniit
			Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	I <sub>F</sub> =10mA	-	0.72	0.9	V
	$V_{F2}$	I <sub>F</sub> =50mA	-	0.85	1.0	
	$V_{F3}$	I <sub>F</sub> =100mA	-	0.90	1.2	
Reverse current	I <sub>R</sub>	V <sub>R</sub> =50V	-	-	0.1	μA
Pin capacitance	C <sub>t</sub>	V <sub>R</sub> =0V, f=1MHz	-	1.3	4.0	pF
Reverse recovery time	trr	(Refer to test circuit)	-	_	3.0	ns

## MC2858

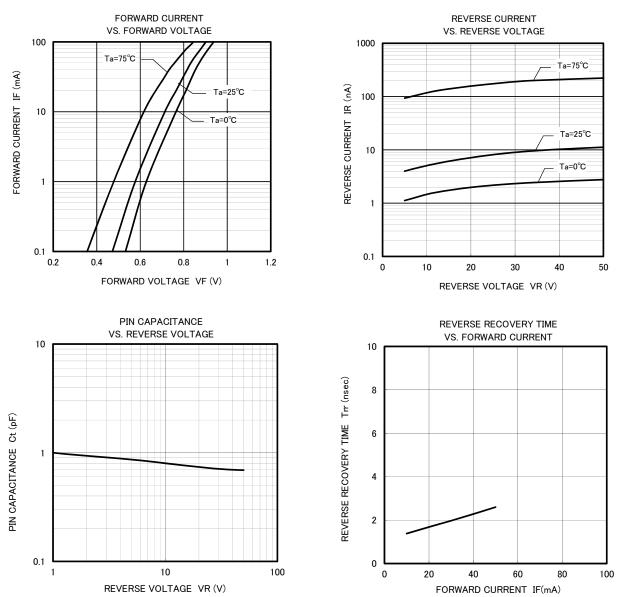
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### REVERSE RECOVERY TIME(trr)TEST CIRCUIT





### TYPICAL CHARACTERISTICS



ISAHAYA ELECTRONICS CORPORATION

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