# 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 limitter, clipper application.

# **FEATURE**

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

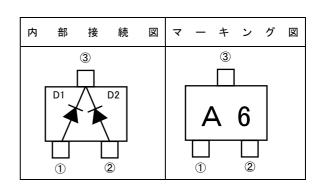
# **APPLICATION**

For general high speed switching of audio machine, VCR.

# JEITA: SC-75A TERMINAL CONNECTER ①: CATHODE1 ②: CATHODE2 ③: ANODE(COMMON) Note) The dimension without tolerance represent central value.

# MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	er Ratings		
$V_{RM}$	Peak reverse voltage	75	٧	
$V_R$	DC reverse voltage	50	٧	
I <sub>FM</sub>	Peak forward current	300	mA	
I o	Average rectificationcurrent 100		mA	
I <sub>FSM</sub>	Surge current(10 $\mu$ sec)	4	Α	
P <sub>T</sub>	Total allowance dissipation(Ta=25°C)	125	mW	
T <sub>j</sub>	Junction temperature	+150	°C	
$T_{stg}$	Storage temperature	-55 <b>~</b> +150	°C	



# MC2858

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

# ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
Farameter			Min	Тур	Max	Unit
	$V_{F1}$	I <sub>F</sub> =10mA	-	0.72	0.9	V
Forward voltage	$V_{F2}$	I <sub>F</sub> =50mA	-	0.85	1.0	
	$V_{F3}$	I <sub>F</sub> =100mA	-	0.90	1.2	
Reverse current	$I_{R1}$	V <sub>R</sub> =50V	-	-	0.1	μΑ
Pin capacitance	C <sub>T</sub>	V <sub>R</sub> =0V, f=1MHz	-	1.3	4.0	pF
Reverse recovery time	trr		-	_	4.0	ns



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