RT3DKKM

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

DESCRIPTION

RT3DKKM is a super mini package plastic seal type silicon epitaxial type composite diode, built with two Cathode common MC2838.

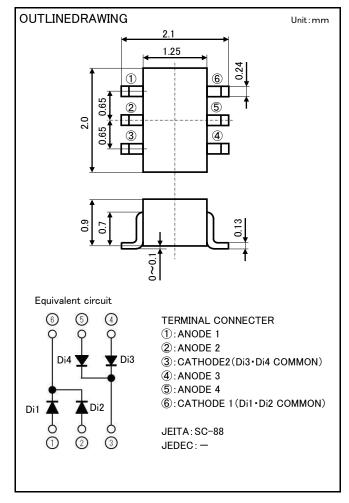
Due to the small pin capacitance, short switching time(reverse recovery time), It is most suitable for high speed switching application and limiter, clipper application.

FEATURE

- Small pin capacitance
- Quick switching time
- ●High voltage
- Quadruple diodes and super mini package for mounting

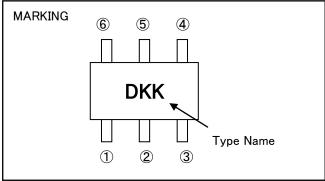
APPLICATION

For general high speed switching of audio machine, VTR.



MAXIMUM RATINGS (Ta=25°C) (Di1 · Di2 · Di3 · Di4 COMMON)

Parameter	Symbol	Ratings	Unit	
Peak reverse voltage	V_{RM}	85	٧	
DC reverse voltage	V_R	80	٧	
Surge current (1 μ s)	I _{FSM}	4	Α	
Peak forward current	I FM	300	mA	
Average rectification current	Ιo	100	mA	
Total dissipation	P_T	200	mW	
Junction temperature	T _j	+150	°C	
Storage temperature	Tstg	-55 ~ +150	°C	



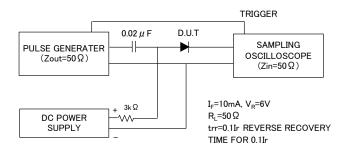
ELECTRICAL CHARACTERISTICS (Ta=25°C) (Di1·Di2·Di3·Di4 COMMON)

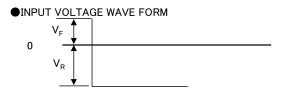
Parameter	Symbol	Test conditions	Limits			Uniit
			Min	Тур	Max	Offile
Forward voltage	V_{F1}	I _F =10mA	1	0.72	0.9	V
	V_{F2}	I _F =50mA	-	0.85	1.0	
	V_{F3}	I _F =100mA	ı	0.90	1.2	
Reverse current	\mathbf{I}_{R_1}	V _R =75V	-	-	0.1	μΑ
	I_{R2}	V _R =80V	-	-	0.5	
Pin capacitance	Ct	V _R =0V, f=1MHz	ı	1.3	4.0	pF
Reverse recovery time	trr	(Refer to test circuit)	1	_	3.0	ns

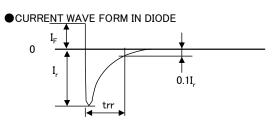
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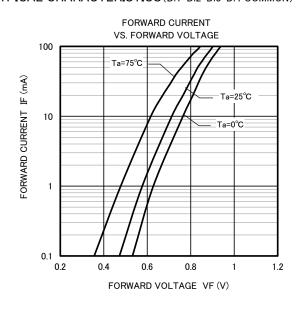
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

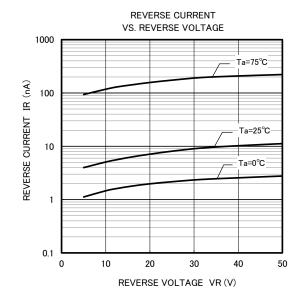


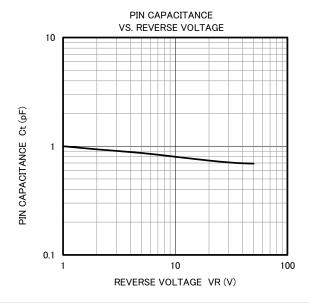


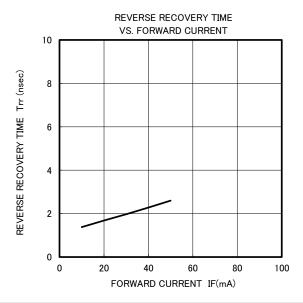


TYPICAL CHARACTERISTICS (Di1.Di2.Di3.Di4 COMMON)









Keep safety first in your circuit designs!

ISAHAYA Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (1) placement of substitutive, auxiliary, (2) use of non-farmable material or (3) prevention against any malfunction or mishap.

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