RT3DKKM-T150

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

AEC-Q101 Compliance

DESCRIPTION

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

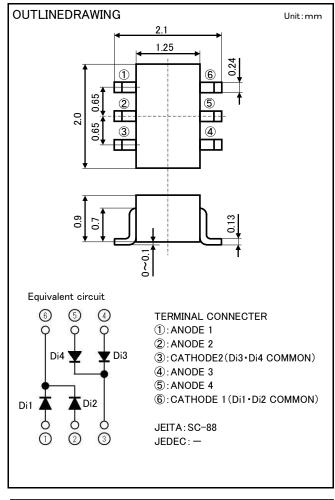
Due to the small pin capacitance, short switching time(reverse recovery time), It is most suitable for high speed switching application and limiter, clipper application.

FEATURE

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

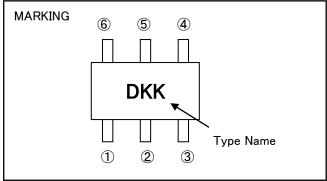
APPLICATION

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 | V | |
| DC reverse voltage | V_R | 80 | V | |
| 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 | |



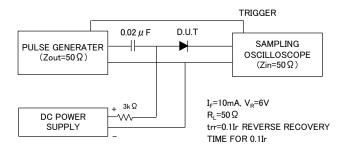
ELECTRICAL CHARACTERISTICS (Ta=25°C) (Di1·Di2·Di3·Di4 COMMON)

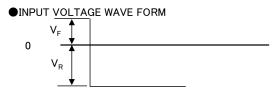
| Parameter | Symbol | Test conditions | Limits | | | - Uniit |
|-----------------------|--------------------|----------------------------|--------|------|-----|---------|
| | | | Min | Тур | Max | Uniit |
| Forward voltage | V_{F1} | I _F =10mA | ı | 0.72 | 0.9 | V |
| | V_{F2} | I _F =50mA | - | 0.85 | 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 | _ | 1.3 | 4.0 | pF |
| Reverse recovery time | trr | (Refer to test circuit) | 1 | - | 3.0 | ns |

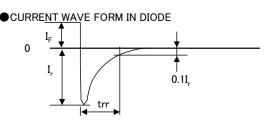
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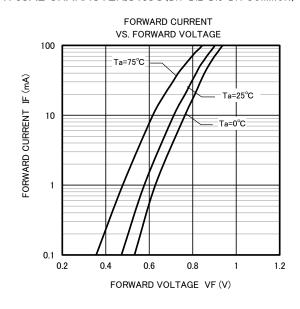
REVERSE RECOVERY TIME(trr)TEST CIRCUIT

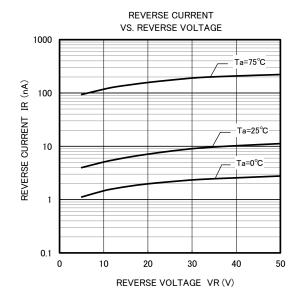


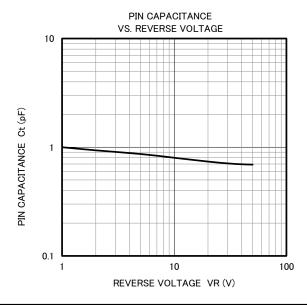


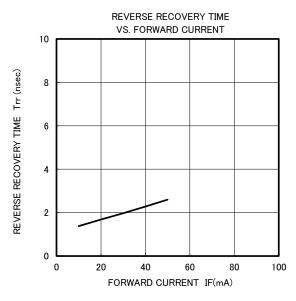


TYPICAL CHARACTERISTICS (Di1-Di2-Di3-Di4 COMMON)









Keep safety first in your circuit designs!

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