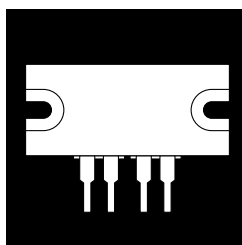


DUAL UNCOMMITTED POWER SCHOTTKY RECTIFIER MODULE IN PLASTIC SIP PACKAGE



16 Amp, 45 Volt, Dual Schottky Rectifier In Isolated Power Package

FEATURES

- Dual Schottky Rectifier in a Single Isolated Package
- Very Low Forward Voltage
- Low Recovery Charge
- Heat Sinkable
- Low Profile Package
- High Current
- High Efficiency for Low Voltage Supplies
- 45V Blocking @ Rated T_{jmax}

DESCRIPTION

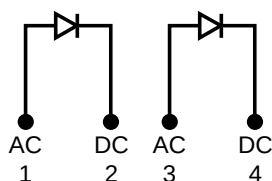
The OM4014SP4 has two uncommitted Schottky power rectifiers in an isolated power package. These devices are ideally suited for a full wave output rectifier in low voltage switching power supplies where small size and high reliability are required.

ABSOLUTE MAXIMUM RATINGS (Per Diode)

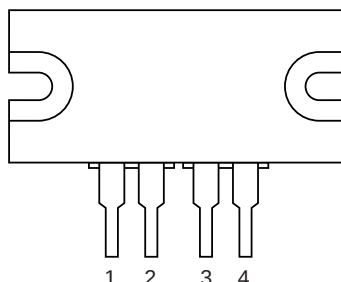
Working Peak Reverse Voltage, V_{RWM}	45 V
DC Blocking Voltage, V_R	45 V
Peak Repetitive Surge Voltage, V_{RSM} @ I_{RM}	54 V
Average Rectified Forward Current, I_O	16 A
Non-Repetitive Peak Surge Current (8.3 ms), I_{FSM}	150A
Peak Reverse Transient Current, I_{RM}	2.0 A
Operating Temperature Range, T_{JC}	- 55° C to + 125°C
Peak Operating Junction Temperature, T_{jmax}	150°C
Thermal Resistance, Junction to Case, R_{qJC}	1.5°C/W

3.2

SCHEMATIC



PIN CONNECTION

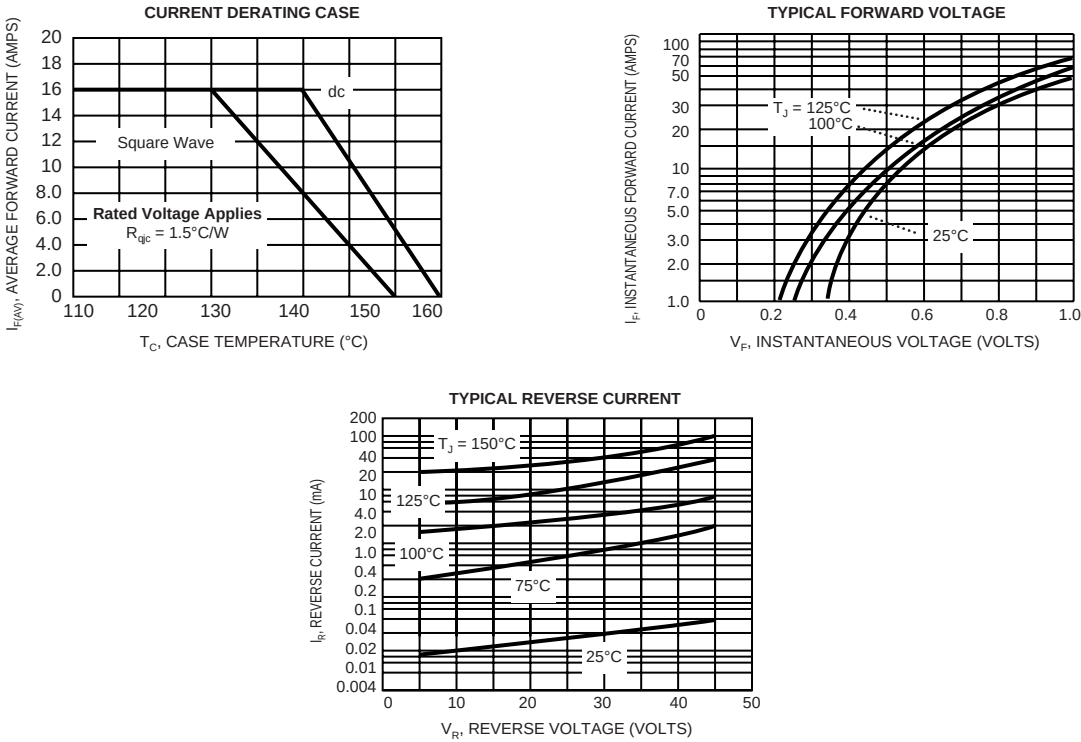


Pin 1: Anode
Pin 2: Cathode
Pin 3: Anode
Pin 4: Cathode

ELECTRICAL CHARACTERISTICS (T_C = 25°C) (Per Diode)

Symbol	Characteristic	Conditions	Limit	Units
I _R	Maximum Instantaneous Reverse Current ⁽¹⁾	T _C = 25°C, V _R = V _{RWM} T _C = 125°C	.2 40	mA mA
V _F	Maximum Instantaneous Forward Voltage ⁽¹⁾	I _F = 16 A, T _C = 25°C I _F = 16 A, T _C = 125°C	.66 .60	V V
C _t	Capacitance	V _R = 5.0V	2000	pF

Note (1) Pulse Test: Pulse Width = 300μs, Duty Cycle 2.0%.



3.2

MECHANICAL OUTLINE

