Unit: mm

30NWK2CZ47

Switching Mode Power Supply Application Converter & Chopper Application

- Repetitive peak reverse voltage: $V_{RRM} = 100 \text{ V}$
- Peak Forward Voltage: V_{FM} = 0.83 V (max)
- Average output recified current: IO = 30 A
- · Low switching losses and output noise.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	100	V
Average output recified current	Io	30	Α
Peak one cycle surge forward current (non-repetitive, sine wave)	I _{FSM}	250 (50 Hz)	Α
Junction temperature	Tj	-40~150	°C
Storage temperature range	T _{stg}	-40~150	°C
Screw Torque	_	0.6	N∙m

1. ANODE 2. ANODE 3. CATHODE

12-10C1A

Weight: 2.0 g (typ.)

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Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	V_{FM}	I _{FM} = 15 A	_	_	0.83	V
Repetitive peak reverse current	I _{RRM}	V _{RRM} = 100 V	_	_	50	μΑ
Junction capacitance	Cj	V _R = 10 V, f = 1.0 MHz	_	250	_	pF
Thermal resistance	R _{th (j-c)}	DC Total, Junction to case	_	_	2.5	°C/W

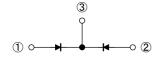
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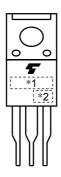
Note: V_{FM}, I_{RRM}, C_j: A value of one cell.

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Polarity

Marking

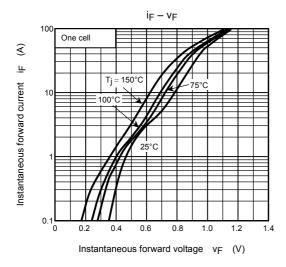


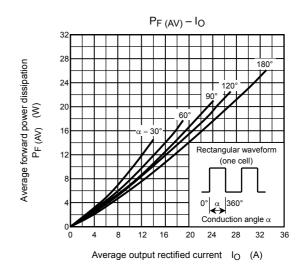


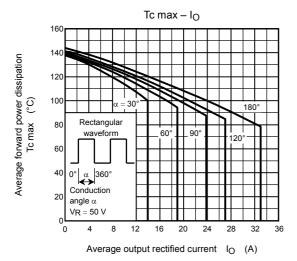
*1	MARK	30NWK2C	TYPE	30NWK2CZ47		
*2	Lot Number Month (starting from alphabet A) Year (last number of the christian era)					

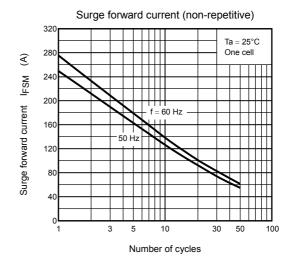
Handling Precaution

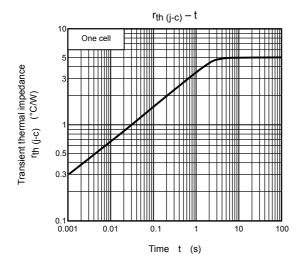
Schottky barrier diodes are having large-reverse-current-leakage characteristic compare to other rectifier products. This current leakage and not proper operating temperature or voltage may cause thermal runaway. Please take forward and reverse loss into consideration when you design.

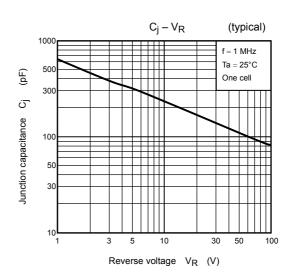




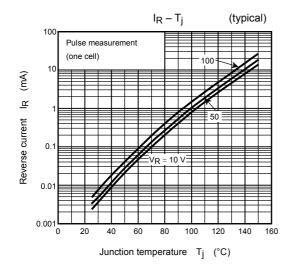


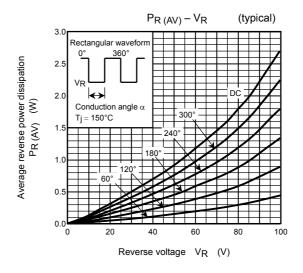






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