TOSHIBA Schottky Barrier Rectifier Stack Trench Schottky Barrier Type

30QWK2C48

Switching Type Power Supply Application Converter & Chopper Application

- Repetitive peak reverse voltage: V_{RRM} = 120 V
- Peak Forward Voltage: V_{FM} = 0.85 V (max)
- Average output rectified current: IO = 30 A
- Low switching loses and output noise.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	120	V
Average output rectified current	Io	30	Α
Peak one cycle surge forward current (sine wave)	I _{FSM}	250 (50 Hz)	Α
Junction temperature	Tj	-40~150	°C
Storage temperature range	T _{stg}	-40~150	°C

1. ANODE 2. ANODE 3. CATHODE Unit: mm 1.32 2.54±0.25 2.54±0.25 XWW 9 1. ANODE 2. ANODE 3. CATHODE

12-10D1A

Weight: 1.7 g (typ.)

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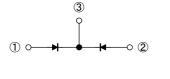
Electrical Characteristics (Ta = 25°C)

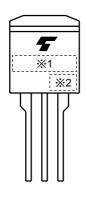
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	V_{FM}	I _{FM} = 15 A	_	_	0.85	V
Repetitive peak reverse current	I _{RRM}	V _{RRM} = Rated (120 V)	_	_	50	μΑ
Junction capacitance	Cj	V _R = 10 V, f = 1.0 MHz	_	227	_	pF
Thermal resistance	R _{th (j-c)}	DC Total	_	_	1.2	°C/W

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

Polarity

Marking

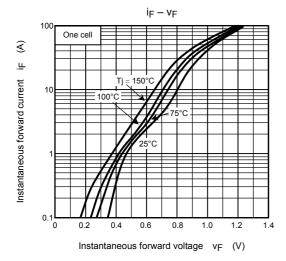


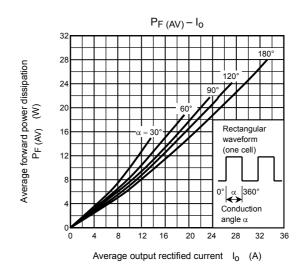


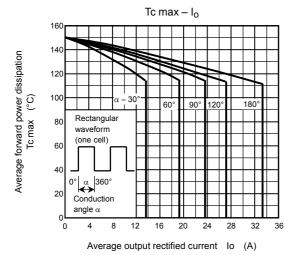
※ 1	MARK	30QWK2C	TYPE	30QWK2C48				
* 2	Lot Number Month (starting from alphabet A) Year (last number of the christian era)							

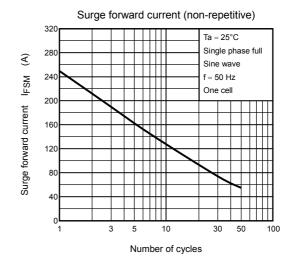
Handling Precaution

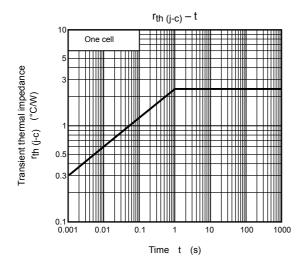
Schottky barrier diodes are having large-reverse-current-leakage characteristic compare to other rectifier products. This current leakage and not proper operating temperature or voltage may cause thermal run. Please take forward and reverse loss into consideration when you design.

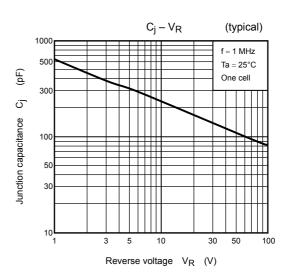




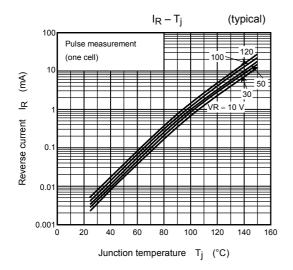


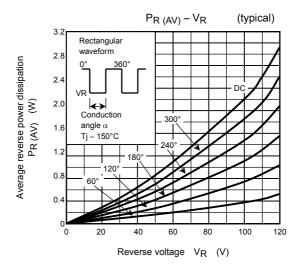






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RESTRICTIONS ON PRODUCT USE

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