30QWK2C48

Switching Type Power Supply Application Converter & Chopper Application

Repetitive peak reverse voltage: V_{RRM} = 120 V

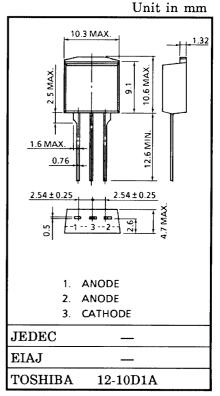
• Peak Forward Voltage: VFM = 0.85 V (max)

• Average output rectified current: Io = 30 A

• Low switching loses and output noise.

Maximum Ratings

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



Weight: 0.74g

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_i: A value of one cell.

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ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

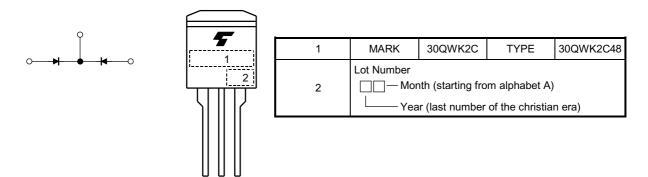
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Polarity

Marking



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.

