## U30QWK2C53

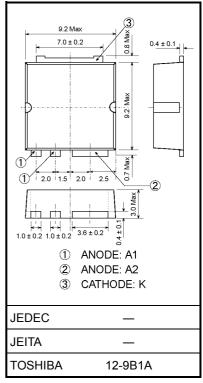
# Switching Mode Power Supply Application Converter&Chopper Application

- Repetitive peak reverse voltage: V<sub>RRM</sub> = 120 V
- Peak forward voltage:  $V_{FM} = 0.85 \text{ V (max)}$
- Average output recified current: IO = 30 A
- Power surface mount device for thin flat package.
- "TFP" (Toshiba package name)

#### Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Repetitive peak reverse voltage	$V_{RRM}$	120	V	
Average output recified current	Io	30	Α	
Peak one cycle surge forward current	leave	100 (50 Hz)	A	
(non-repetitive, sine wave)	IFSM	110 (60 Hz)		
Junction temperature	Tj	-40 to 150	°C	
Storage temperature range	T <sub>stg</sub>	-40 to 150	°C	

Unit: mm



Weight: 0.74 g (typ.)

#### **Polarity**



\*: Common Terminal

#### **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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## Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	$V_{FM}$	I <sub>FM</sub> = 15 A	_	_	0.85	V
Repetitive peak reverse current	I <sub>RRM</sub>	V <sub>RRM</sub> = 120 V			50	μΑ
Junction Capacitance	Cj	V <sub>R</sub> = 10 V, f = 1.0 MHz	_	230	_	pF
Thermal resistance	R <sub>th (j-c)</sub>	DC Total, Junction to Case	_	_	1.2	°C/W

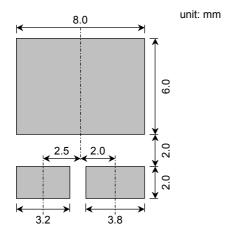
Note:  $V_{FM}$ ,  $I_{RRM}$ ,  $C_j$ : A value of one cell.

## Marking

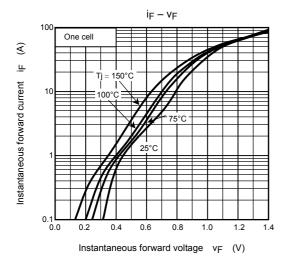


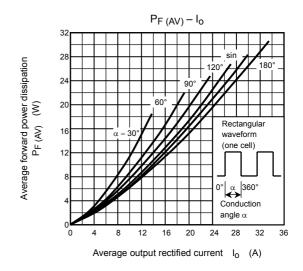
<b>※</b> 1	MARK	30QWK2C	TYPE	U30QWK2C53		
<b></b> 2	Lot Number					

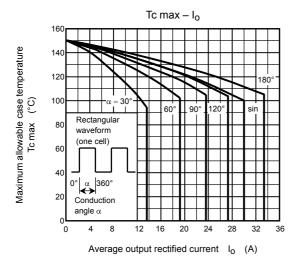
## Standard Soldering Pad

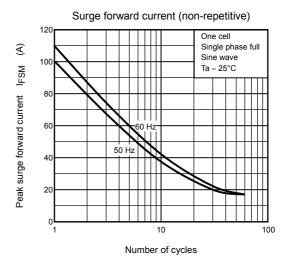


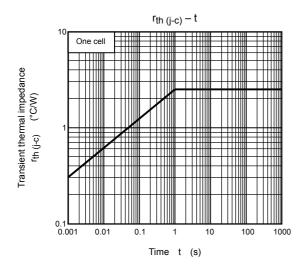
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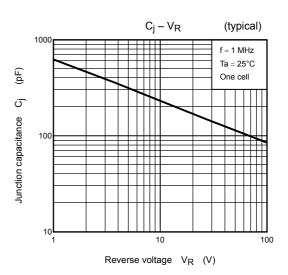


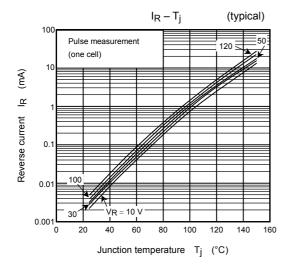


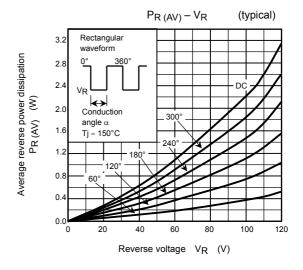












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#### **RESTRICTIONS ON PRODUCT USE**

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