#### TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

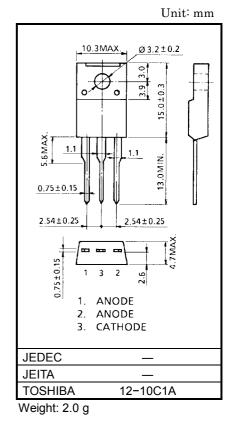
# 30GWJ2CZ47C

# SWITCHING MODE POWER SUPPLY APPLICATON CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage  $: V_{RRM} = 40V$
- Average Output Rectified Current : IO = 30A
- Low Switching Losses and Output Noise.

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V	
Repetitive Peak Reverse Surge Voltage (Note 1)	V <sub>RRSM</sub>	48	V	
Average Output Rectified Current	Ι <sub>Ο</sub>	30	А	
Peak One Cycle Surge Forward	I <sub>FSM</sub>	300 (50Hz)	A	
Current (Sine Wave)		330 (60Hz)		
Junction Temperature	Тj	-40~125	°C	
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C	
Screw Torque	_	0.6	N∙m	



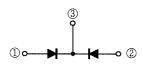
Note 1: Pulse Width (t<sub>w</sub>)  $\leq$ 500ns, duty (t<sub>w</sub> / T)  $\leq$ 1 / 25

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

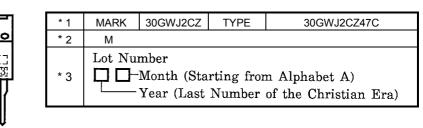
CHARACTERIST	С	SYMBOL	TEST CONDITION	MIN	TYP.	MAX
Peak Forward Voltage	(Note 2)	$V_{FM}$	I <sub>FM</sub> = 15A	_	0.55	V
Repetitive Peak Reverse C	urrent (Note 2)	I <sub>RRM</sub>	V <sub>RRM</sub> = Rated	_	15	mA
Junction Capacitance	(Note 2)	Cj	V <sub>R</sub> = 10V, f = 1.0MHz	600	_	pF
Thermal Resistance		R <sub>th (j−c)</sub>	DC Total, Junction to Case	_	2.5	°C/W

Note 2: A value of one cell.

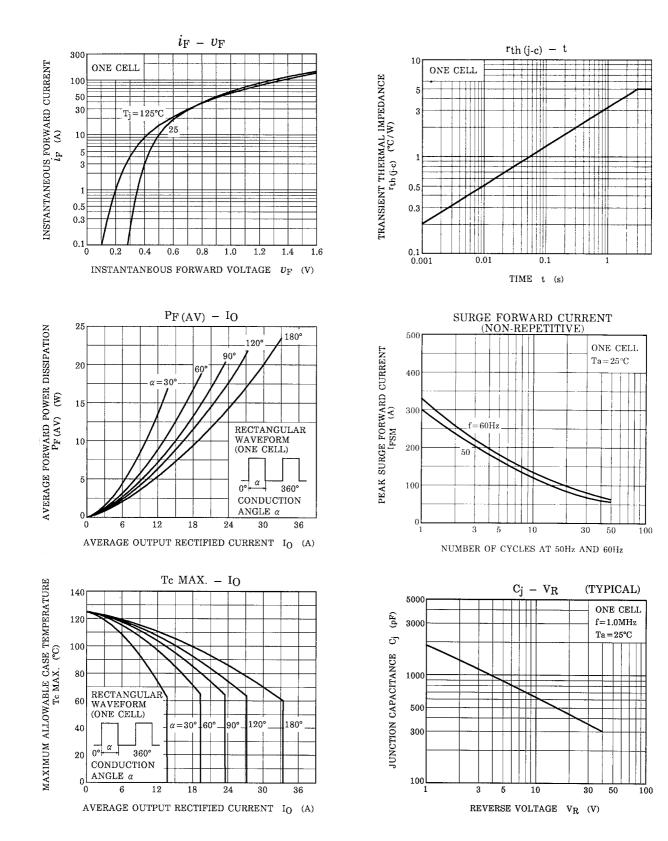
#### POLARITY



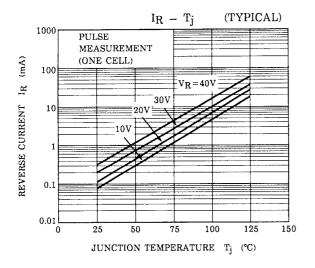
## MARKING

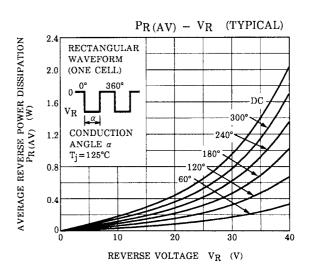


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