

## **30GWJ2CZ47C**

# SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

• Repetitive Peak Reverse Voltage  $: V_{RRM} = 40 \text{ V}$ • Average Output Rectified Current  $: I_O = 30 \text{ A}$ 

• Low Switching Losses and Output Noise

## **ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)**

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

Note 1: Pulse Width  $(t_W) \le 500$ ns, duty  $(t_W/T) \le 1/25$ 

Note 2: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

# Unit: mm 10.3MAX. Ø 3.2±0.2 0 6 6 7 0 1.1 1.1 0.75±0.15 1.3 2 9 7 1. ANODE 2. ANODE 3. CATHODE JEDEC — JEITA —

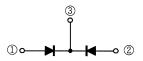
Weight: 2.0 g (typ.)

## **ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

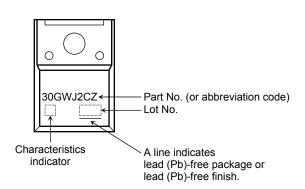
CHARACTERIS	TIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX
Peak Forward Voltage	(Note 3)	$V_{FM}$	I <sub>FM</sub> = 15A	_	0.55	V
Repetitive Peak Reverse (	Current (Note 3)	I <sub>RRM</sub>	V <sub>RRM</sub> = Rated	-	15	mA
Junction Capacitance	(Note 3)	Cj	V <sub>R</sub> = 10V, f = 1.0MHz	600	_	pF
Thermal Resistance		R <sub>th (j-c)</sub>	Total DC, Junction to Case	_	2.5	°C/W

Note 3: A value applied to one cell.

### **POLARITY**



## **MARKING**



Abbreviation Code	Part No.		
30GWJ2CZ	30GWJ2CZ47C		

