TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

# 5 G W J 2 C Z 4 7 C

SWITCHING TYPE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

• Repetitive Peak Reverse Voltage :  $V_{RRM} = 40V$ 

• Average Output Rectified Current : IO=5A

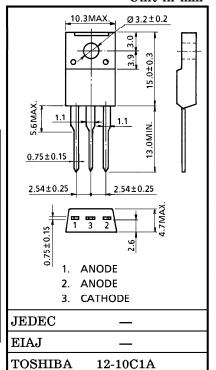
• Low Switching Losses and Output Noise.

#### **MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$v_{RRM}$	40	V	
Repetitive Peak Reverse Surge Voltage (Note 1)	$v_{RRSM}$	48	V	
Average Output Rectified Current	IO	5	Α	
Peak One Cycle Surge Forward	T	50 (50Hz)		
Current (Sin Wave)	IFSM	55 (60Hz)	Α	
Junction Temperature	$T_{j}$	-40~125	°C	
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~150	°C	
Screw Torque	_	0.6	N∙m	

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

#### Unit in mm



## Weight: 2.0g

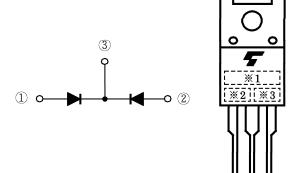
## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 2)	$V_{FM}$	$I_{\text{FM}} = 2.5 \text{A}$	_	0.55	V
Repetitive Peak Reverse Current (Note 2)	$I_{ m RRM}$	V <sub>RRM</sub> =Rated	_	3.5	mA
Junction Capacitance (Note 2)	$\mathbf{C_{j}}$	$V_R$ =10V, f=1.0MHz	100	_	рF
Thermal Resistance	$R_{ ext{th }( ext{j-c})}$	DC Total, Junction to Case	_	3.5	°C/W

Note 2: A value of one cell.

## **POLARITY**

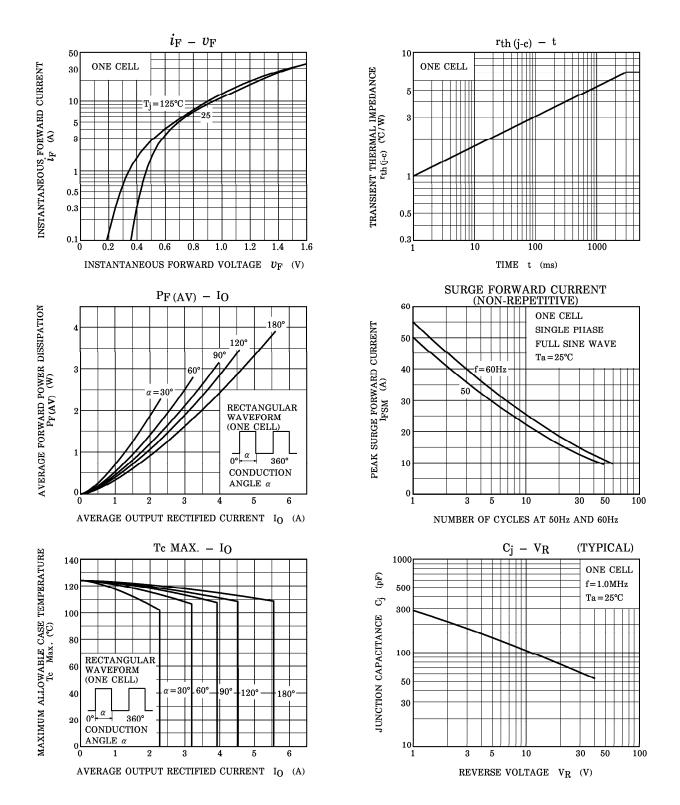
### **MARKING**



<b>*1</b>	MARK	5GWJ2CZ	TYPE	5GWJ2CZ47C		
<b>*2</b>	C					
*3	Lot Number  Month (Starting from Alphabet A)  Year (Last Number of the Christian Era)					

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