TOSHIBA HIGH EFFICIENCY DIODE STACE (HED) SILICON EPITAXIAL TYPE

## **5JL2CZ47**

# SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

• Repetitive Peak Reverse Voltage  $: V_{RRM} = 600V$ • Average Output Rectified Current  $: I_O = 5A$ 

• Ultra Fast Reverse-Recovery Time  $: t_{rr} = 50 ns \text{ (Max.)}$ 

• Low Switching Losses and Output Noise.

#### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$V_{RRM}$	600	V	
Average Output Rectified Current	Io	5	Α	
Peak One Cycle Surge Forward	leau	25 (50Hz)	А	
Current (Sin Wave)	IFSM	27.5 (60Hz)		
Junction Temperature	Tj	-40~150	°C	
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C	
Screw Torque	_	0.6	N·m	

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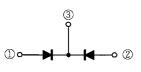
Weight: 2.0 g

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

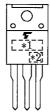
CHARACTERIST	TC TC	SYMBOL	TEST CONDITION	TYP.	MAX	UNIT
Peak Forward Voltage	(Note 1)	$V_{FM}$	I <sub>FM</sub> = 2.5A	_	2.0	V
Repetitive Peak Reverse C	Current (Note 1)	I <sub>RRM</sub>	V <sub>RRM</sub> = 600V	_	50	μΑ
Reverse Recovery time	(Note 1)	t <sub>rr</sub>	I <sub>F</sub> = 2A, di / dt = -20A / μs	_	50	ns
Forward Recovery time	(Note 1)	t <sub>fr</sub>	I <sub>F</sub> = 1A	_	150	ns
Thermal Resistance		R <sub>th (j-c)</sub>	DC Total, Junction to Case	_	3.8	°C/W

Note 1: A value of one cell.

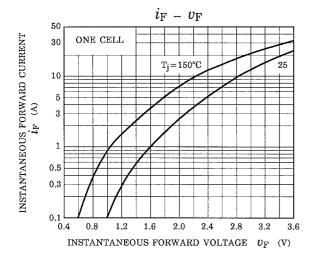
### **POLARITY**

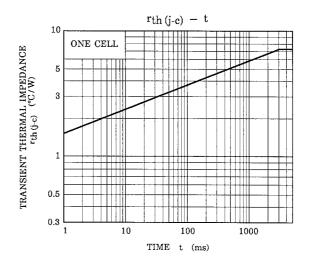


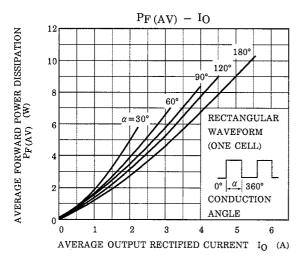
#### **MARKING**

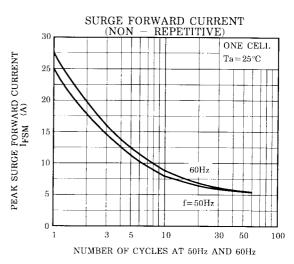


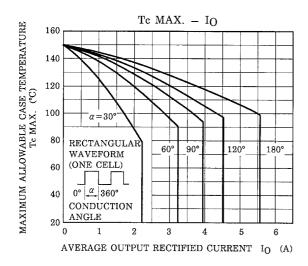
* 1	MARK	5JL2CZ
	Lot Number □ □ - Month (Stan └ Year (Last Nu	rting from Alphabet A) mber of the Christian Era)

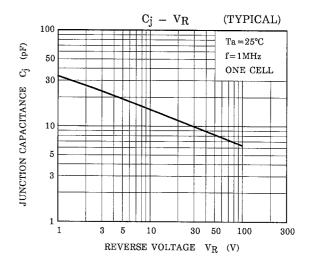












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