TOSHIBA SCHOTTKY BARRIER RECTIFIER TRENCH SCHOTTKY BARRIER TYPE

# **U5FWK2C42**

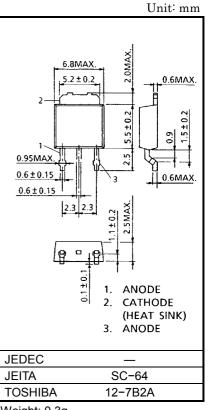
### SWITCHING MODE POWER SUPPLY APPLICATION

Peak Forward Voltage :  $V_{FM} = 0.40 \text{ V (Max)}$  Repetitive Peak Reverse Voltage :  $V_{RRM} = 30 \text{ V}$ 

Average Output Rectified Current : IO = 5 A

## **MAXIMUM RATINGS (Ta = 25°C)**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Average Forward Current	IO	5.0	Α
Peak One Cycle Surge Forward Current (Non-Repetitive)	I <sub>FSM</sub>	50 (50Hz)	Α
Junction Temparature	Tj	-40~125	°C
Storage Temparature Range	T <sub>stg</sub>	-40~125	°C



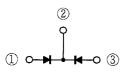
Weight: 0.3g

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

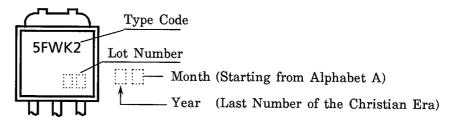
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	(Note)	$V_{FM}$	I <sub>FM</sub> = 2.5 A	_	_	0.40	V
Repetitive Peak Reverse Currer	nt (Note)	I <sub>RRM</sub>	V <sub>RRM</sub> = 30 V	-	_	0.3	mA
Junction Capacitance	(Note)	Cj	V <sub>R</sub> = 10 V, f = 1.0 MHz	_	145	_	pF
Thermal Resistance		R <sub>th (j−c)</sub>	DC Total	_	_	3.5	°C/W

Note: A Value of one cell

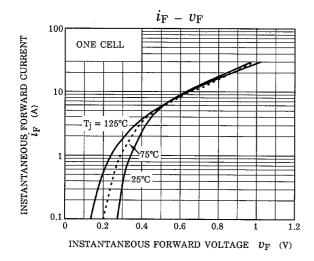
#### **POLARITY**

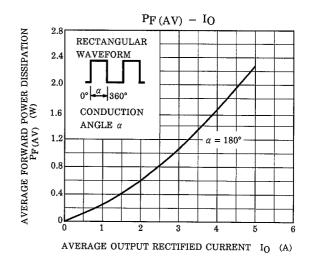


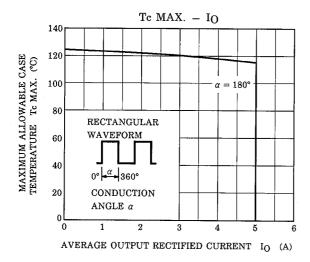
#### **MARKING**

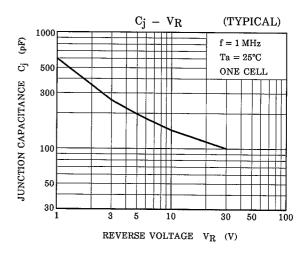


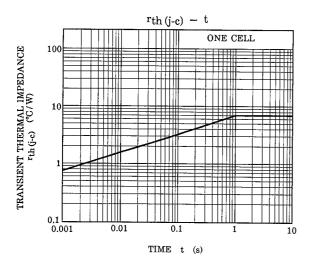
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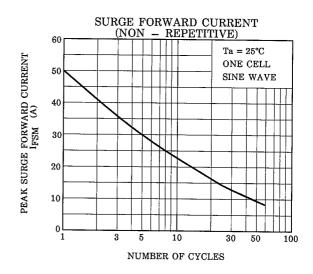


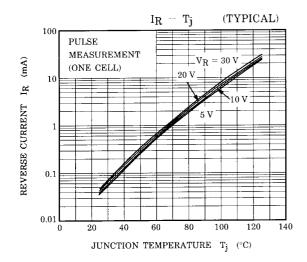


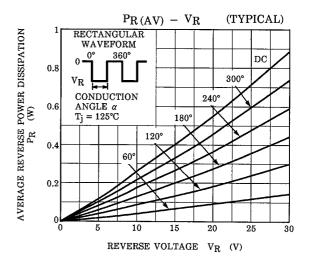












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