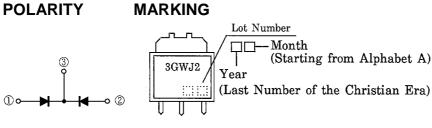
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

3GWJ2C42,U3GWJ2C42

SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

- Average Output Rectified Current : IO = 3 A
- Repetitive Peak Reverse Voltage $: V_{RRM} = 40 V$
- Low Switching Losses and Output Noise.



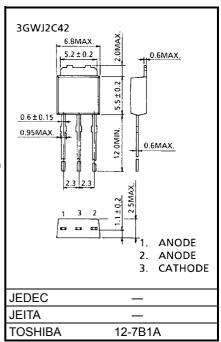
MAXIMUM RATINGS (Ta = 25°C)

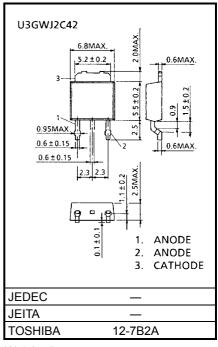
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V _{RRM}	40	V	
Average Output Rectified Current	Ι _Ο	3	А	
Peak One Cycle Surge Forward Current (Sine Wave)	I _{FSM}	15 (50 Hz)	A	
		16.5 (60 Hz)		
Junction Temperature	Тј	-40~125	°C	
Storage Temperature Range	T _{stg}	-40~150	°C	

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX	UNIT
Peak Forward Voltage (Note 1)	V _{FM}	I _{FM} = 1.5 A	_	0.55	V
Repetitive Peak Reverse Current (Note 1)	I _{RRM}	V _{RRM} = 40 V	_	2.0	mA
Junction Capacitance (Note 1)	Cj	V _R = 10 V, f = 1 MHz	62		pF
Thermal Resistance (Junction to Case)	R _{th (j−c)}	DC	_	7	°C/W
Thermal Resistance (Junction to Ambient)	R _{th (j−a)}	DC (250 mm × 0.8 mm Ceramic)	_	125	°C/W

Note 1: A value of one cell.







Unit: mm

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180

3.0

ONE CELL

 $Ta = 25^{\circ}C$

30 50 100

(TYP.)

ONE CELL

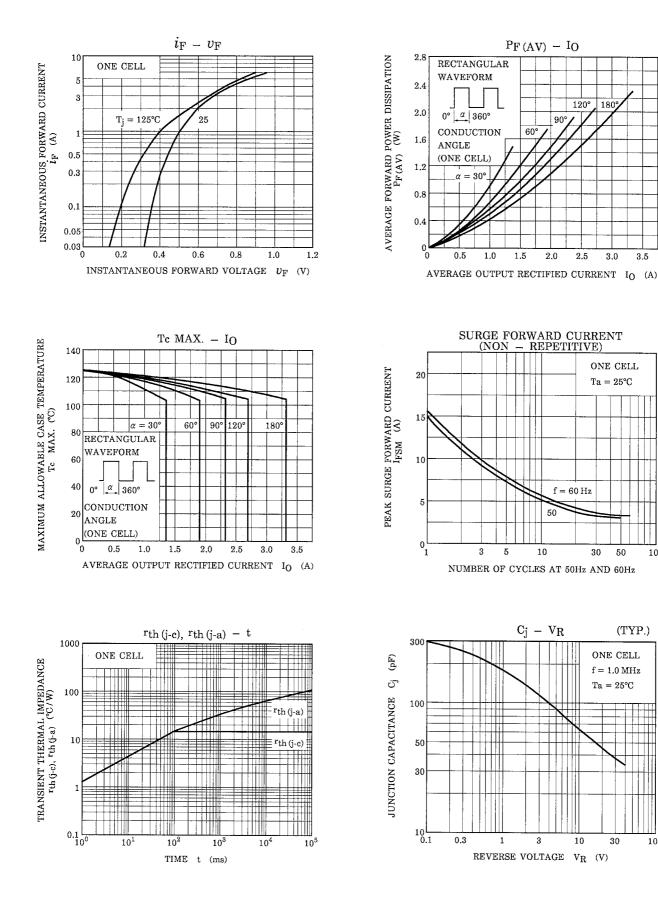
 $f = 1.0 \ MHz$

Ta = 25°C

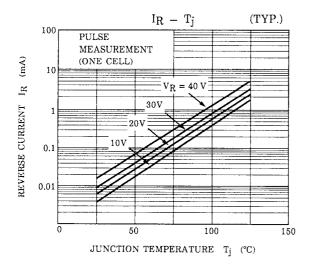
30

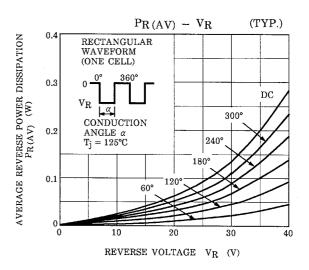
100

3.5



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