

TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

## 5GWJ2C48C,U5GWJ2C48C

SWITCHING MODE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM}=40V$
- Average Output Rectified Current :  $I_O=5A$
- Low Switching Losses and Output Noise.

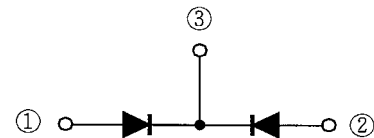
5GWJ2C48C	U5GWJ2C48C
JEDEC —	JEDEC —
EIAJ —	EIAJ —
TOSHIBA 12-10D1A	TOSHIBA 12-10D2A

### MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

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	$I_O$	5	A
Peak One Cycle Surge Forward Current (Sin Wave)	$I_{FSM}$	50 (50Hz)	A
		55 (60Hz)	
Junction Temperature	$T_j$	-40~125	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~150	$^\circ C$

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

### POLARITY

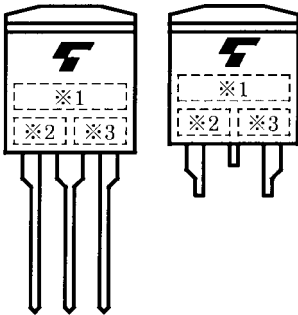


## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

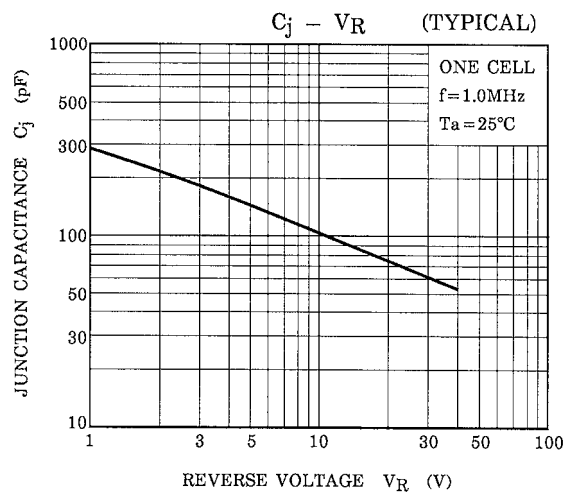
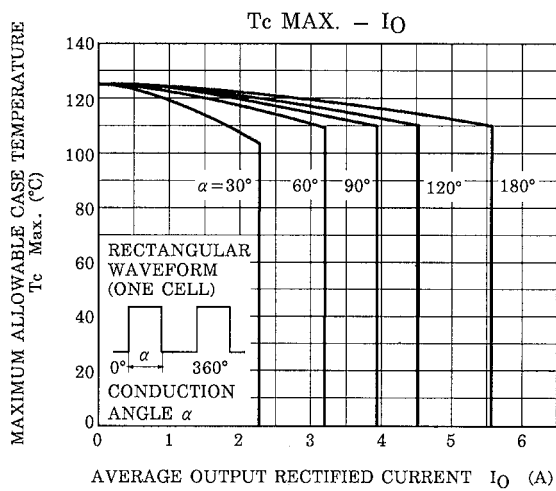
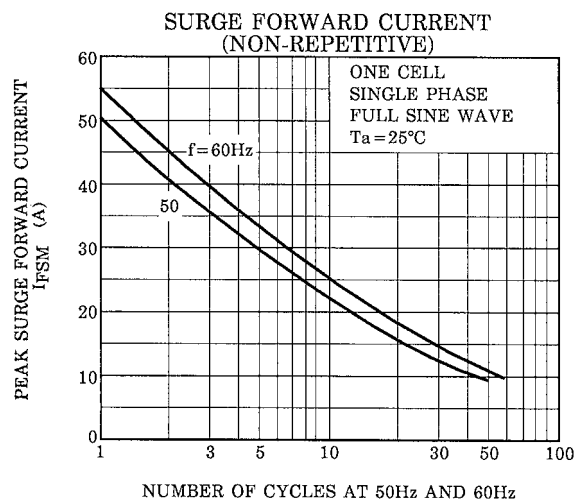
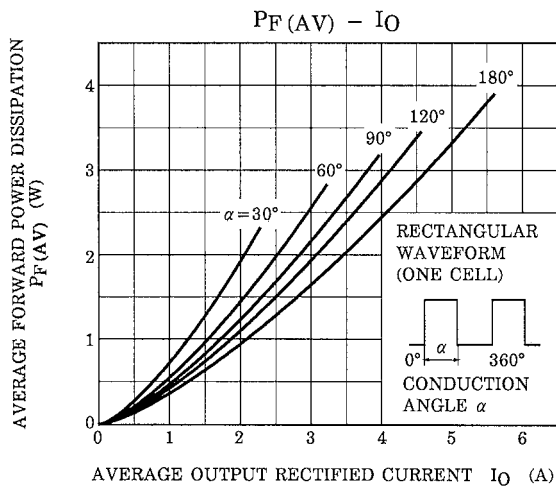
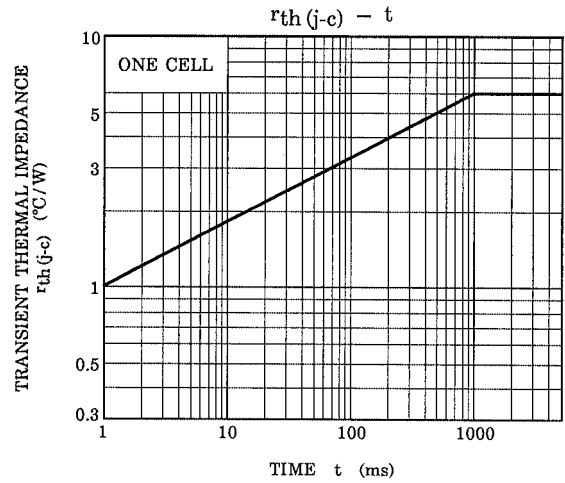
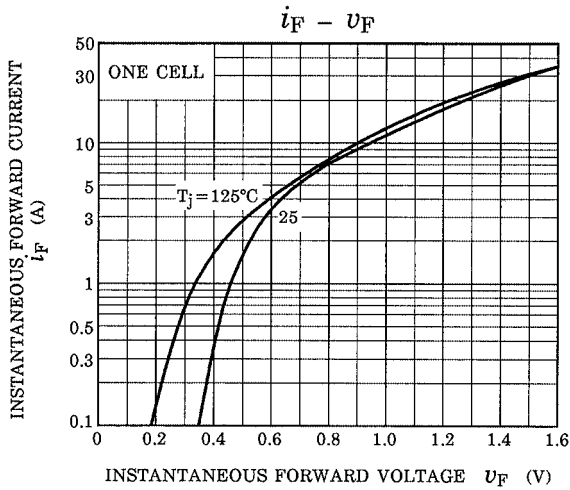
CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=2.5A$	—	0.55	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=\text{Rated}$	—	3.5	mA
Junction Capacitance	$C_j$	$V_R=10V, f=1.0MHz$	100	—	pF
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	3.0	°C / W

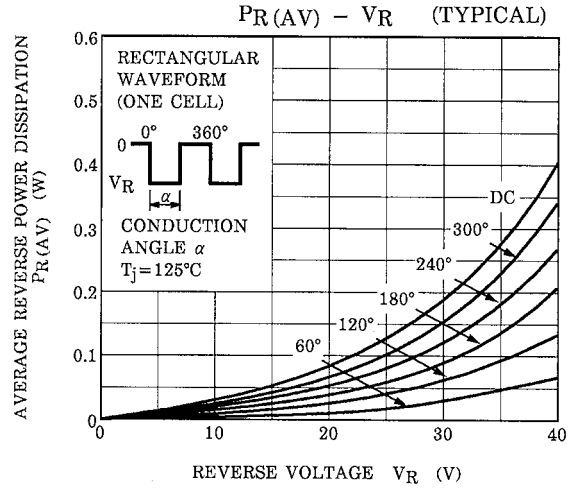
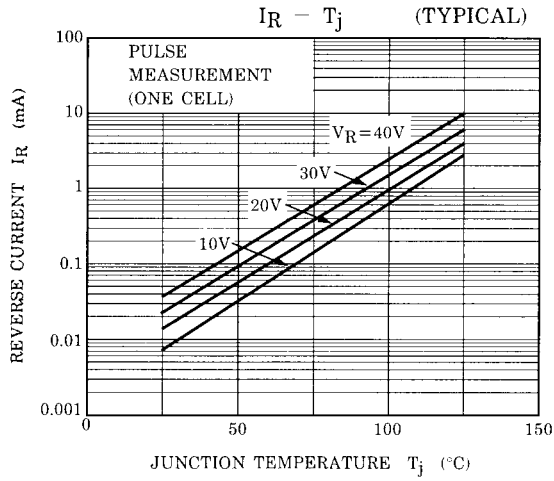
$V_{FM}$ ,  $I_{RRM}$ ,  $C_j$  : A value of one cell.

## MARKING



*1	MARK	5GWJ2C	TYPE	5GWJ2C48C, U5GWJ2C48C
*2	C			
*3	Lot Number □ □ — Month (Starting from Alphabet A) ————— Year (Last Number of the Christian Era)			





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