

TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

10GWJ2CZ47C

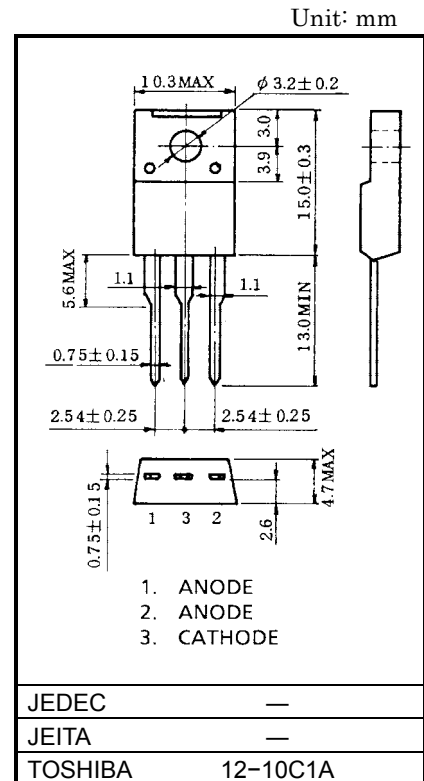
SWITCHING MODE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage : $V_{RRM} = 40V$
- Average Output Rectified Current : $I_O = 10A$
- Low Switching Losses and Output Noise.

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	10	A
Peak One Cycle Surge Forward Current (Sine Wave)	I_{FSM}	100 (50Hz)	A
		110 (60Hz)	
Junction Temperature	T_j	-40~125	$^\circ C$
Storage Temperature Range	T_{stg}	-40~150	$^\circ C$
Screw Torque	—	0.6	N · m

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

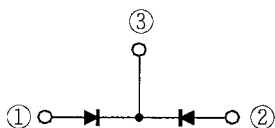


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

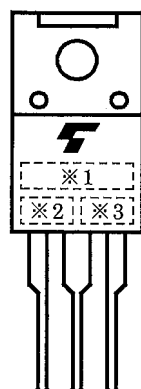
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage (Note 2)	V_{FM}	$I_{FM} = 5A$	—	—	0.55	V
Repetitive Peak Reverse Current (Note 2)	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	3.5	mA
Junction Capacitance (Note 2)	C_j	$V_R = 10V, f = 1.0MHz$	—	195	—	pF
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	—	3.0	$^\circ C / W$

Note 2: A value of one cell.

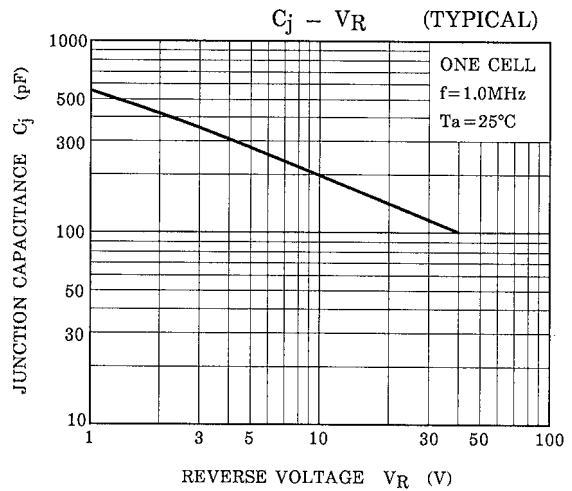
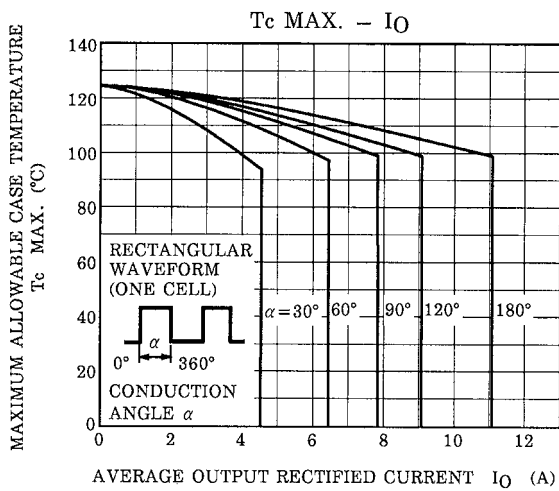
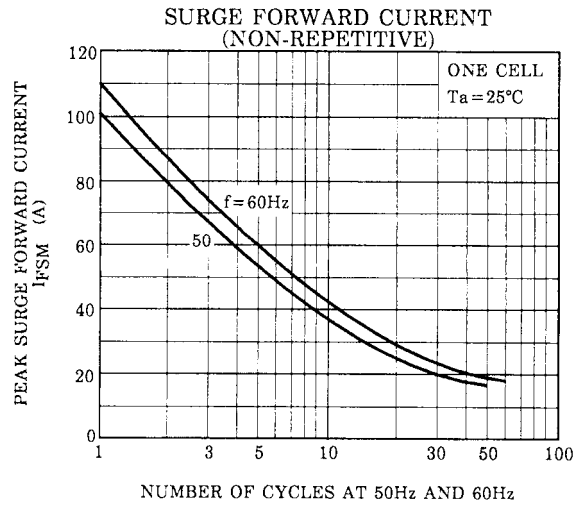
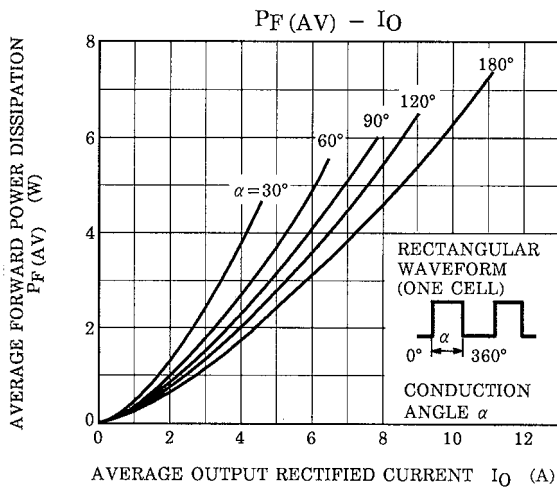
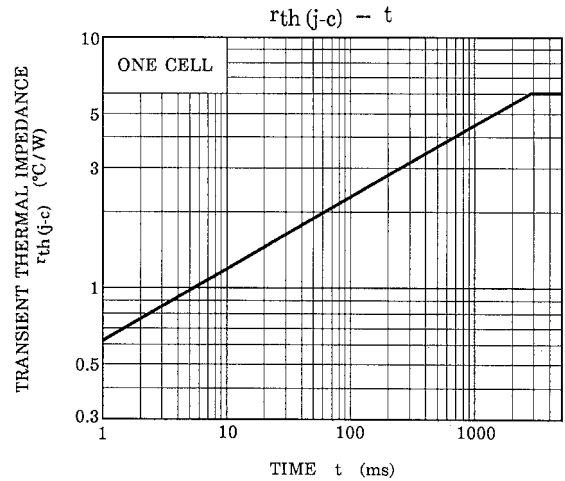
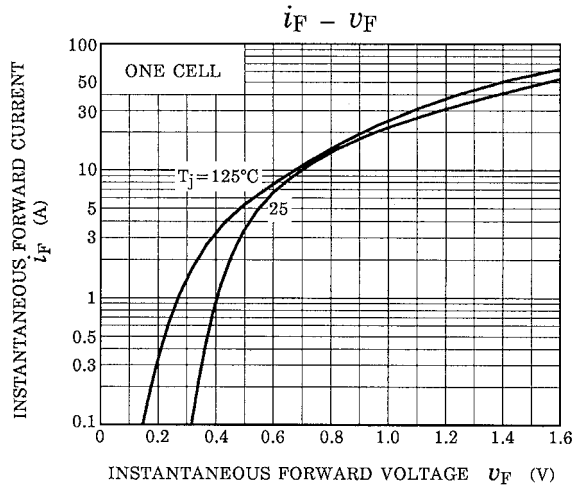
POLARITY

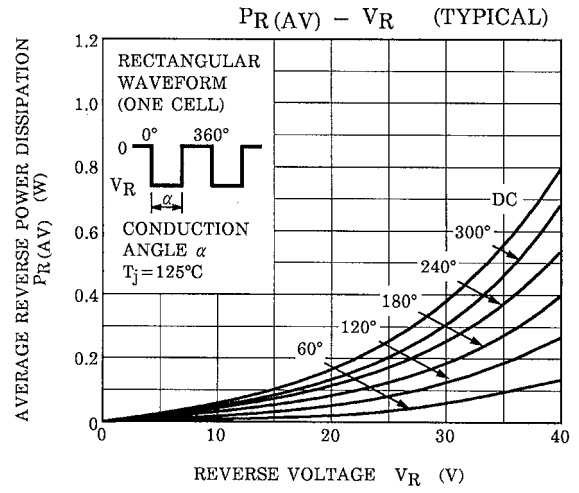
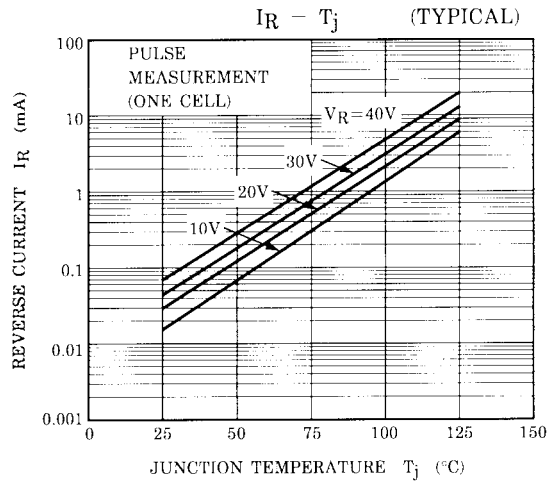


MARKING



* 1	MARK	10GWJ2CZ	TYPE	10GWJ2CZ47C
* 2	C			
* 3	Lot Number [] [] — Month (Starting from Alphabet A) [] — Year (Last Number of the Christian Era)			





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