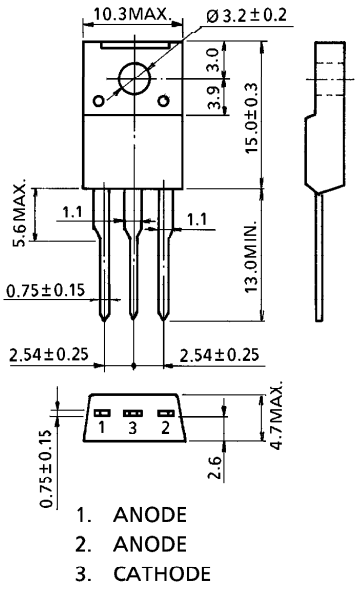
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

5GWJ2CZ47C

SWITCHING TYPE POWER SUPPLY APPLICATON
CONVERTER & CHOPPER APPLICATION

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

Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	12-10C1A

Weight : 2.0g

MAXIMUM RATINGS

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	°C
Storage Temperature Range	T_{stg}	−40~150	°C
Screw Torque	—	0.6	N·m

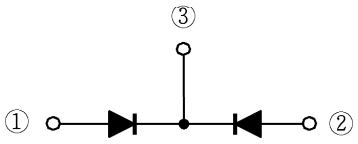
Note 1 : Pulse Width (t_w)≦500ns, duty (t_w/T)≦1/25

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

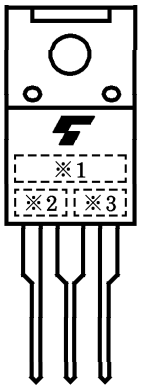
CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 2)	V_{FM}	I_{FM}=2.5A	—	0.55	V
Repetitive Peak Reverse Current (Note 2)	I_{RRM}	V_{RRM}=Rated	—	3.5	mA
Junction Capacitance (Note 2)	C_j	V_R=10V, f=1.0MHz	100	—	pF
Thermal Resistance	$R_{th\ (j\text{-}c)}$	DC Total, Junction to Case	—	3.5	°C/W

Note 2 : A value of one cell.

POLARITY



MARKING



※1	MARK	5GWJ2CZ	TYPE	5GWJ2CZ47C
※2	C			
※3	Lot Number □□ — Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)			

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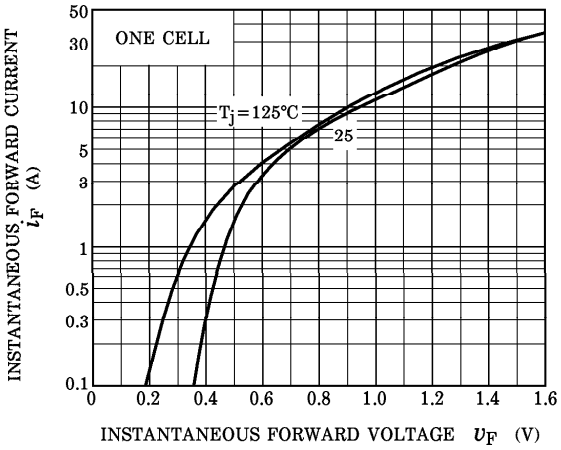
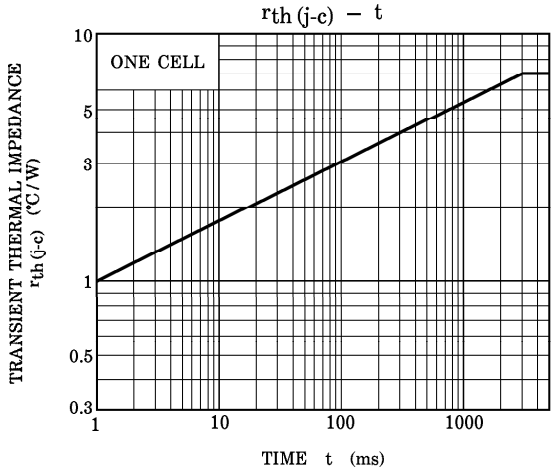
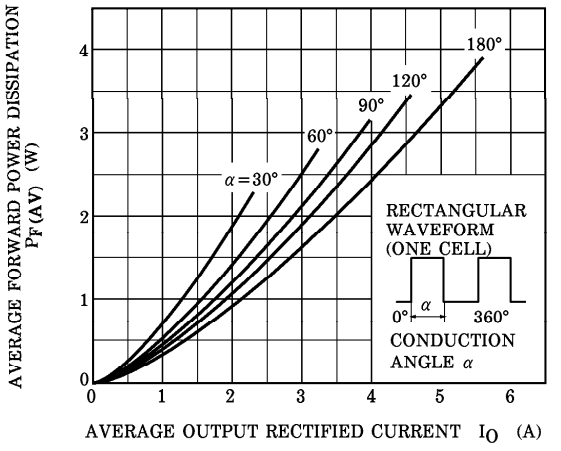
$i_F - v_F$



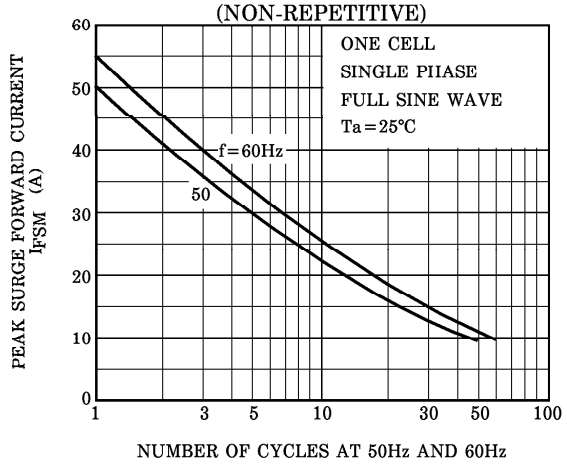
$r_{th\,(j\text{-}c)} - t$



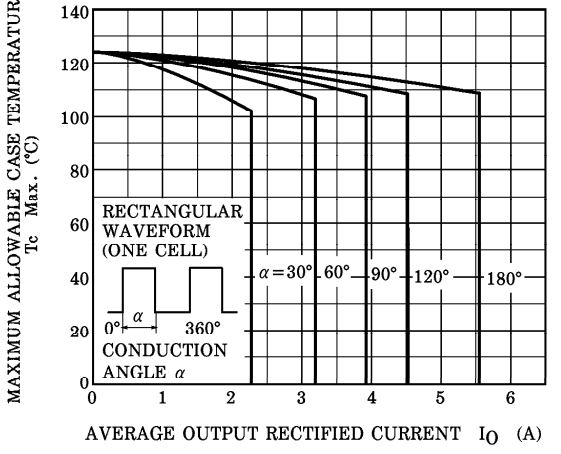
$P_{F\,(AV)} - I_O$



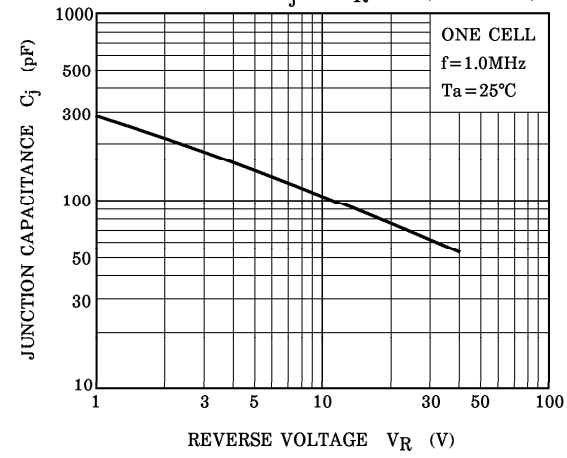
SURGE FORWARD CURRENT (NON-REPETITIVE)



T_C MAX. $- I_O$



$C_j - V_R$ (TYPICAL)



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