

TOSHIBA HIGH EFFICIENCY RECTIFIER SILICON EPITAXIAL TYPE

# 5GLZ47A

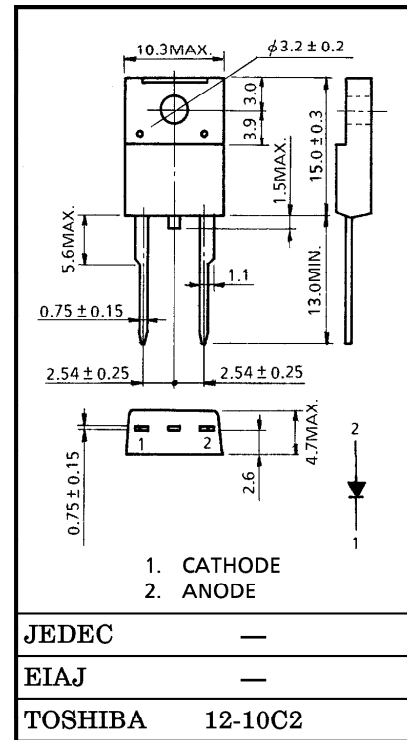
SWITCHING TYPE POWER SUPPLY APPLICATION  
 CONVERTER & CHOPPER APPLICATION

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=400V$
- Ultra Fast Reverse-Recovery Time :  $t_{rr}=35ns$
- Low Switching Losses and Low Output Noise.

**MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	V
Average Output Rectified Current	$I_O$	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	50 (50Hz) 60 (60Hz)	A
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C

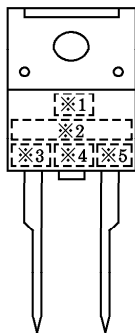


**ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

Weight : 2.0g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=5A$	—	1.8	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=400V$	—	50	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F=2A, di/dt = -20A/\mu s$	—	35	ns
Forward Recovery Time	$t_{fr}$	$I_F=1A$	—	100	ns
Thermal Resistance	$R_{th(j-c)}$	DC	—	4.0	°C/W

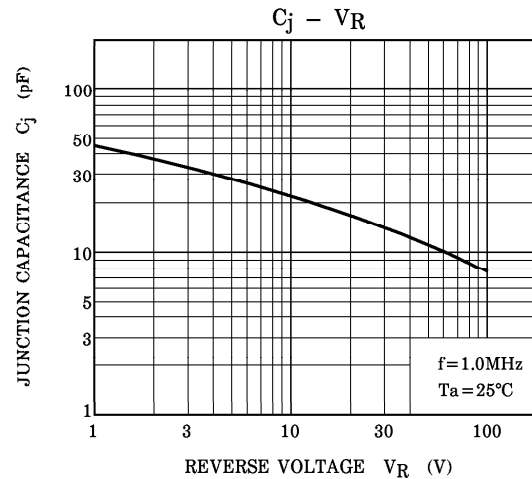
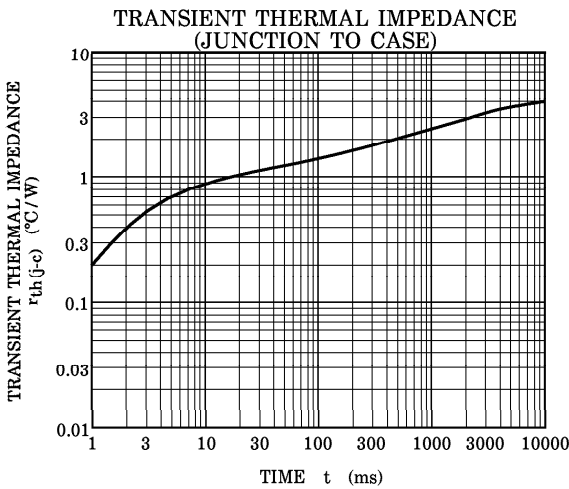
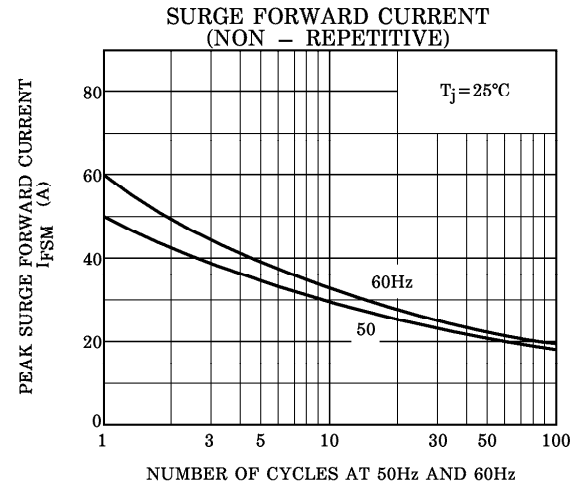
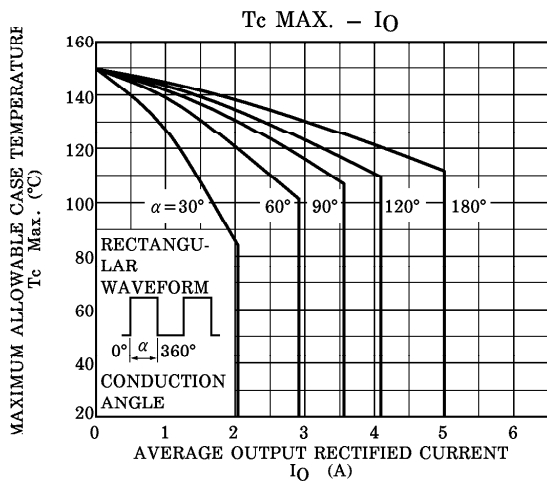
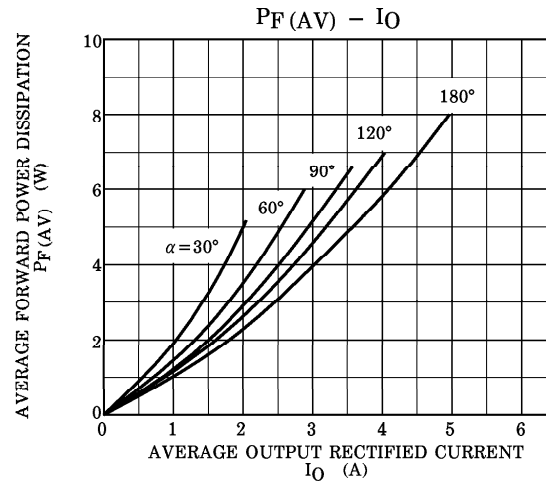
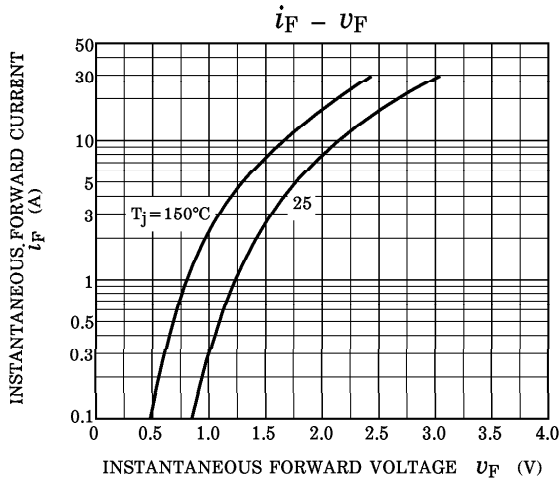
**MARKING**



※ Number	SYMBOL	MARK
※ 1	Toshiba Product Mark	
※ 2	TYPE	5GLZ47A
※ 3		5GLZ47A
※ 4	Polarity Mark	
※ 5	Lot Number	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px; margin-left: 10px;"></div> <span style="margin-left: 10px;">— Month (Starting from Alphabet A)</span>  <span style="margin-left: 10px;">— Year (Last Number of the Christian Era)</span> </div>

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