Unit in mm

#### TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

## 5 G W J Z 4 7

#### HIGH SPEED RECTIFIER APPLICATION

Repetitive Peak Reverse Voltage : V<sub>RRM</sub>=40V

• Average Forward Current : IF(AV)=5A

• Low Forward Voltage : V<sub>FM</sub>=0.55V (Max.)

#### **MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$v_{RRM}$	40	V	
Average Forward Current	I <sub>F (AV)</sub>	5	Α	
Peak One Cycle Surge Forward	Teres	50 (50Hz)	Α	
Current (Non-Repetitive)	$I_{FSM}$	60 (60Hz)	A	
Junction Temperature	$T_j$	-40~125	$^{\circ}\mathrm{C}$	
Storage Temperature Range	${ m T_{stg}}$	-40~150	$^{\circ}\mathrm{C}$	

# 

12-10C2

Weight: 2.0g

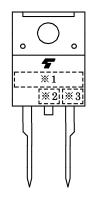
TOSHIBA

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage V <sub>FM</sub> I <sub>FM</sub> =5A		_	0.55	V	
Repetitive Peak Reverse Current	$I_{ m RRM}$	$V_{RRM} = 40V$	_	3.5	mA
Junction Capacitance	$C_{j}$	$V_R = 10V$ , $f = 1MHz$	200	_	рF
Thermal Resistance (With Heat Sink)	$R_{ ext{th (j-c)}}$	Junction to Case (Note 1)	_	4.0	°C/W

Note 1: Apply silicone greace to the contact surface between heat sink and case of rectifier.

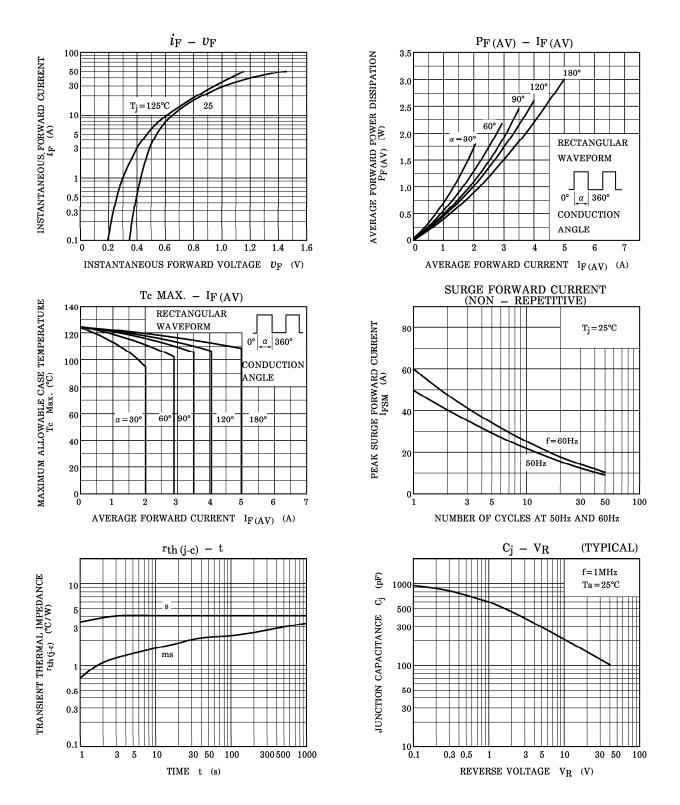
#### **MARKING**



<b>%1</b>	TYPE	5GWJZ47
<b>%2</b>	Polarity	-
<b>*3</b>	Lot Number  Month (Starting from Alphabet A  Year (Last Number of the Christian Era)	

961001EAA2

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