

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

# 5GWJZ47

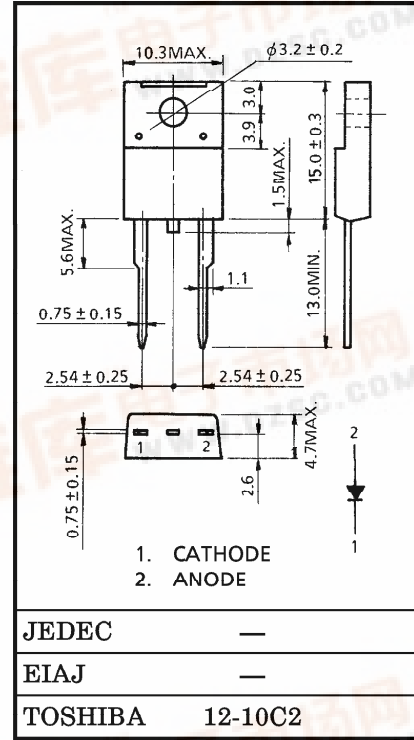
HIGH SPEED RECTIFIER APPLICATION

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=40V$
- Average Forward Current :  $I_F(AV)=5A$
- Low Forward Voltage :  $V_{FM}=0.55V$  (Max.)

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Average Forward Current	$I_F(AV)$	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	50 (50Hz) 60 (60Hz)	A
Junction Temperature	$T_j$	-40~125	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C



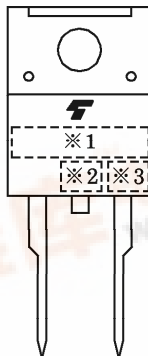
Weight : 2.0g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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

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

MARKING



※1	TYPE	5GWJZ47
※2	Polarity	←
※3	Lot Number	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div>Month (Starting from Alphabet A)</div> </div> <div style="margin-left: 20px;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div>Year (Last Number of the Christian Era)</div> </div>

