

**TOSHIBA****5JLZ47**

TOSHIBA HIGH EFFICIENCY RECTIFIER SILICON EPITAXIAL TYPE

# 5JLZ47

SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER &amp; CHOPPER APPLICATION

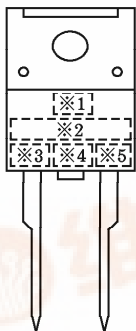
- Repetitive Peak Reverse Voltage :  $V_{RRM}=600V$
- Ultra Fast Reverse-Recovery Time :  $t_{rr}=50ns$
- Low Switching Losses and Low Output Noise.

**MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	600	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

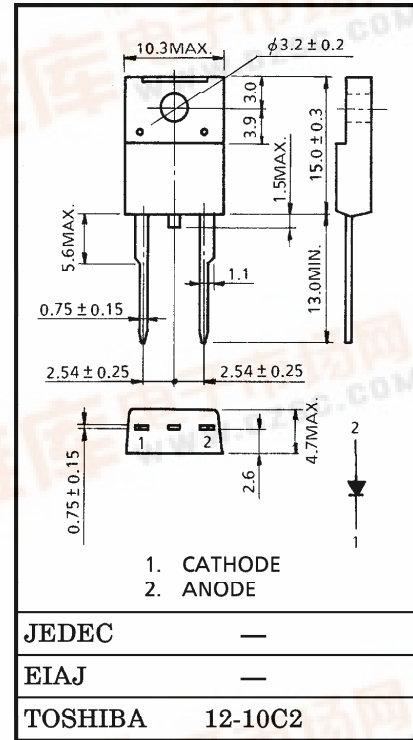
**ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 5A$	—	2.0	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = 600V$	—	50	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = 2A, di/dt = -20A/\mu s$	—	50	ns
Forward Recovery Time	$t_{fr}$	$I_F = 1A$	—	150	ns
Thermal Resistance	$R_{th(j-c)}$	DC	—	4.0	°C/W

**MARKING**

※ Number	SYMBOL	MARK
※ 1	Toshiba Product Mark	
※ 2	TYPE 5JLZ47	5JLZ47
※ 3	Polarity Mark	
※ 4	Lot Number — Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)	

Unit in mm



JEDEC

EIAJ

TOSHIBA 12-10C2

Weight : 2.0g

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