

TOSHIBA HIGH EFFICIENCY DIODE STAGE (HED) SILICON EPITAXIAL TYPE

# 5JL2CZ47

SWITCHING TYPE POWER SUPPLY APPLICATION

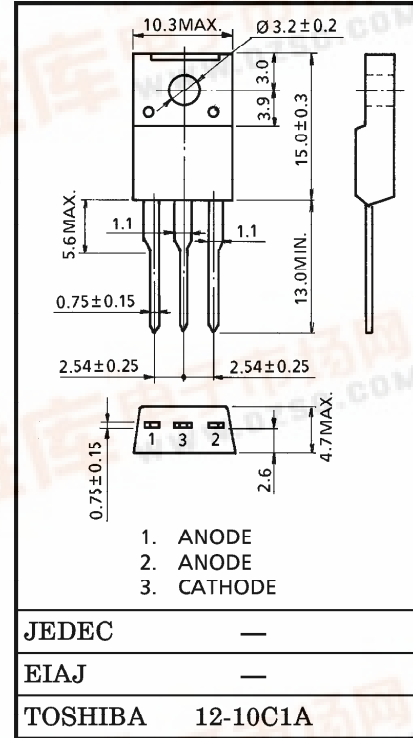
CONVERTER & CHOPPER APPLICATION

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 600V$
- Average Output Rectified Current :  $I_O = 5A$
- Ultra Fast Reverse-Recovery Time :  $t_{rr} = 50ns$  (Max.)
- Low Switching Losses and 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 (Sin Wave)	$I_{FSM}$	25 (50Hz) 27.5 (60Hz)	A
Junction Temperature	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C
Screw Torque	—	0.6	N·m



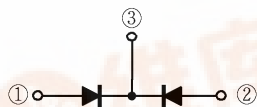
Weight : 2.0g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	$V_{FM}$	$I_{FM} = 2.5A$	—	2.0	V
Repetitive Peak Reverse Current (Note 1)	$I_{RRM}$	$V_{RRM} = 600V$	—	50	$\mu A$
Reverse Recovery time (Note 1)	$t_{rr}$	$I_F = 2A, di/dt = -20A/\mu s$	—	50	ns
Forward Recovery time (Note 1)	$t_{fr}$	$I_F = 1A$	—	150	ns
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	3.8	°C/W

Note 1 : A value of one cell.

POLARITY



MARKING



*1	MARK	5JL2CZ
*2	Lot Number	□ □ - Month (Starting from Alphabet A) └ Year (Last Number of the Christian Era)

