

TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

5GWJ2C42

SWITCHING TYPE POWER SUPPLY APPLICATION

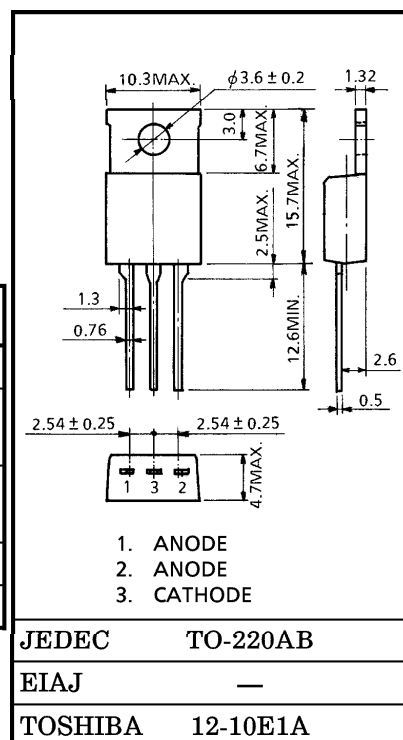
CONVERTER & CHOPPER APPLICATION

Unit in mm

- Average Output Rectified Current : $I_O = 5.0A$
- Repetitive Peak Reverse Voltage : $V_{RRM} = 40V$

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Average Output Rectified Current ($T_c = 114^\circ C$)	I_O	5.0	A
Peak One Cycle Surge Forward Current (Non Repetitive)	I_{FSM}	50 (50Hz)	A
Junction Temperature	T_j	$-40 \sim 125$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$

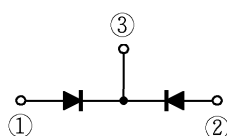
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

Weight : 2.0g

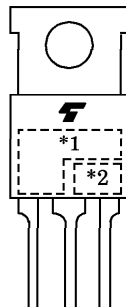
CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	V_{FM}	$I_{FM} = 2.5A$	—	0.55	V
Repetitive Peak Reverse Current (Note 1)	I_{RRM}	$V_{RRM} = 40V$	—	3.5	mA
Reverse Recovery time (Note 1)	t_{rr}	$I_F = 1.0A$, $di/dt = -30A/\mu s$	—	35	ns
Junction Capacitance (Note 1)	C_j	$V_R = 10V$, $f = 1.0MHz$	125	—	pF
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	3.0	$^\circ C/W$

Note 1 : A value of one cell.

POLARITY



MARKING



*1	TYPE	5GWJ2C42
*2	Lot number Month (Starting from Alphabet A) Year (Last Number of the Christian Era)	

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