

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

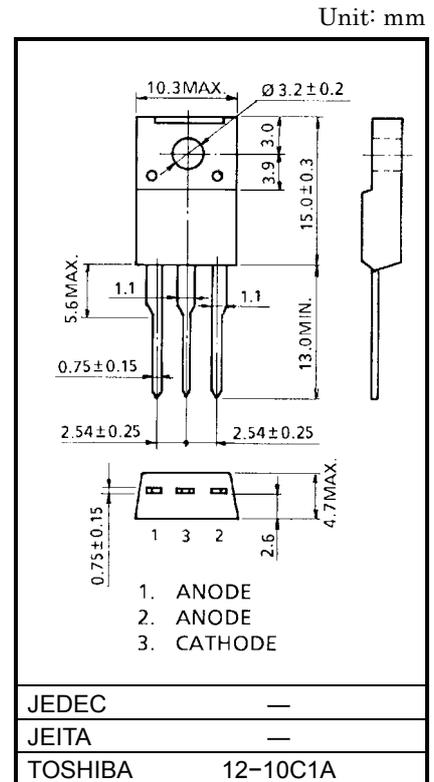
## 5DL2CZ47A,5FL2CZ47A,5GL2CZ47A

SWITCHING MODE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 200, 300, 400V$
- Average Output Rectified Current :  $I_O = 5A$
- Ultra Fast Reverse-Recovery Time :  $t_{rr} = 35ns$  (Max)
- Low Switching Losses and Output Noise.

### MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	5DL2CZ47A	$V_{RRM}$	200	V
	5FL2CZ47A		300	
	5GL2CZ47A		400	
Average Output Rectified Current		$I_O$	5	A
Peak One Cycle Surge Forward Current (Sin Wave)		$I_{FSM}$	25 (50Hz)	A
			27.5 (60Hz)	
Junction Temperature		$T_j$	-40~150	$^\circ C$
Storage Temperature Range		$T_{stg}$	-40~150	$^\circ C$
Screw Torque		—	0.6	N·m



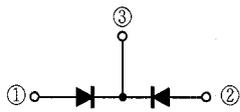
Weight: 2.0 g

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

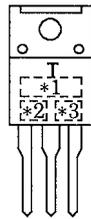
CHARACTERISTIC		SYMBOL	TEST CONDITION	TYP.	MAX	UNIT
Peak Forward Voltage (Note 1)	5DL2CZ47A	$V_{FM}$	$I_{FM} = 2.5A$	—	0.98	V
	5FL2CZ47A			—	1.3	
	5GL2CZ47A			—	1.8	
Repetitive Peak Reverse Current (Note 1)	5DL2CZ47A	$I_{RRM}$	$V_{RRM} = \text{Rated}$	—	10	$\mu A$
	5FL2CZ47A			—	10	
	5GL2CZ47A			—	50	
Reverse Recovery Time (Note 1)	$t_{rr}$	$I_F = 2A, di/dt = -20A/\mu s$	—	35	ns	
Forward Recovery Time (Note 1)	$t_{fr}$	$I_F = 1A$	—	100	ns	
Thermal Resistance		$R_{th(j-c)}$	DC Total, Junction to Case	—	3.8	$^\circ C/W$

Note 1: A value of one cell.

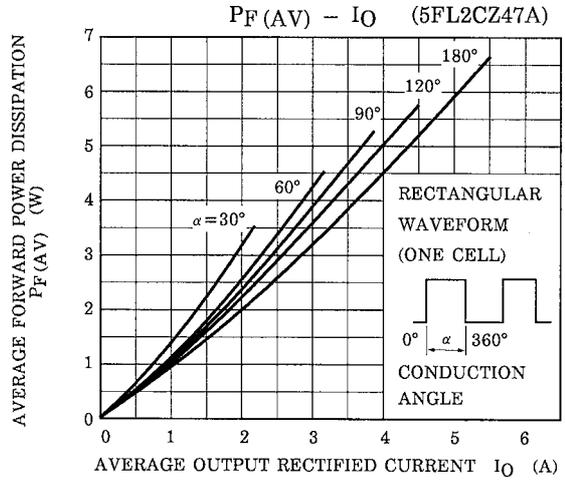
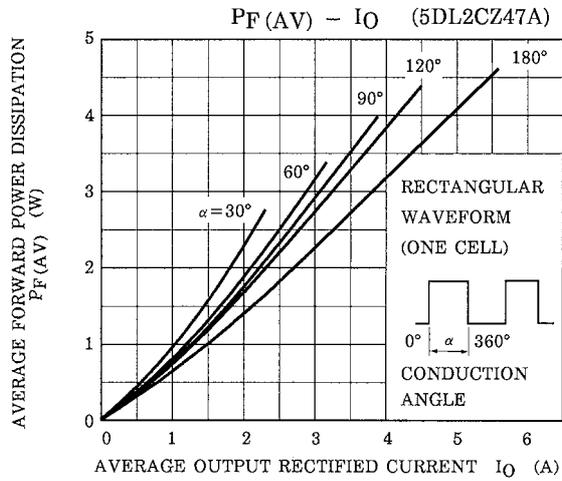
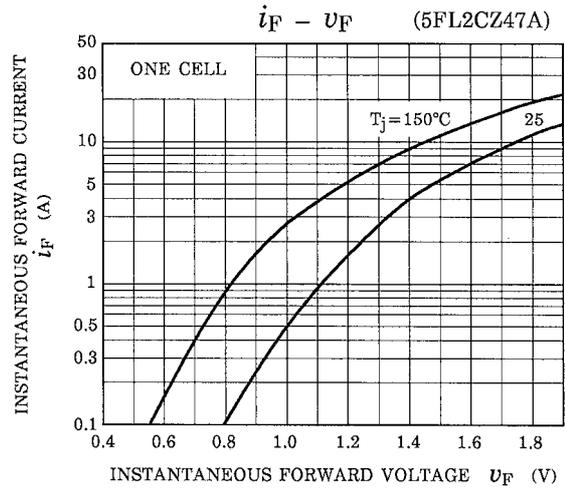
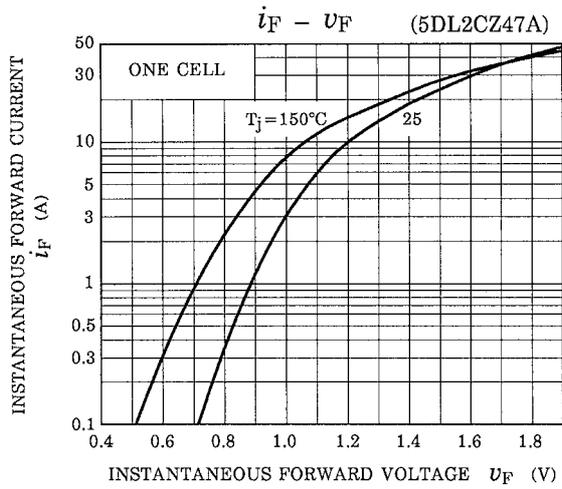
## POLARITY

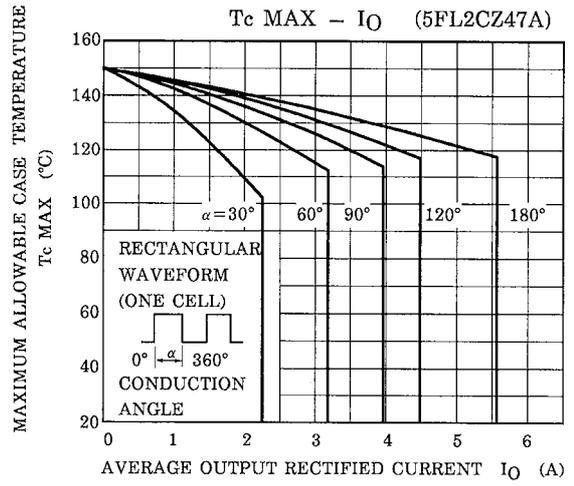
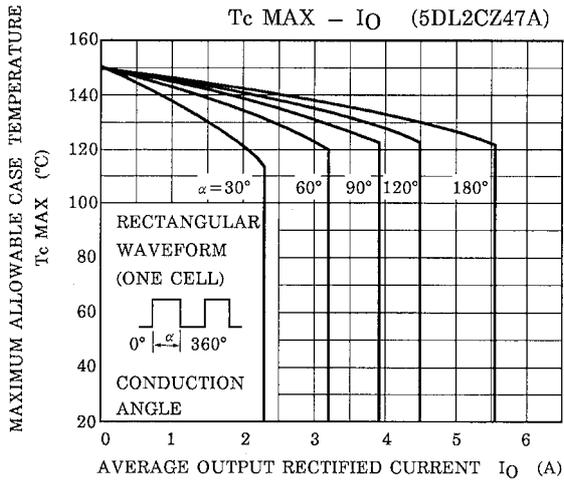


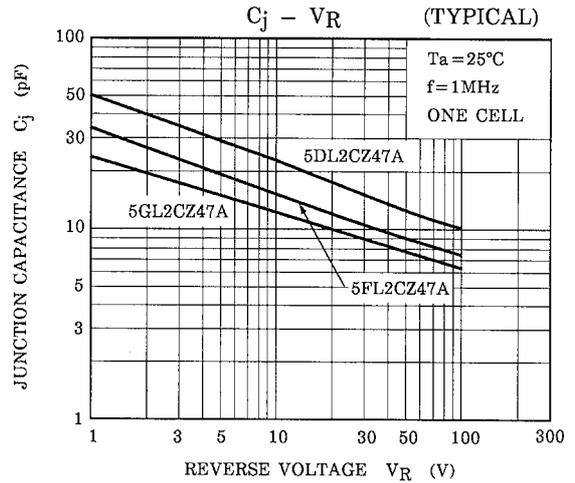
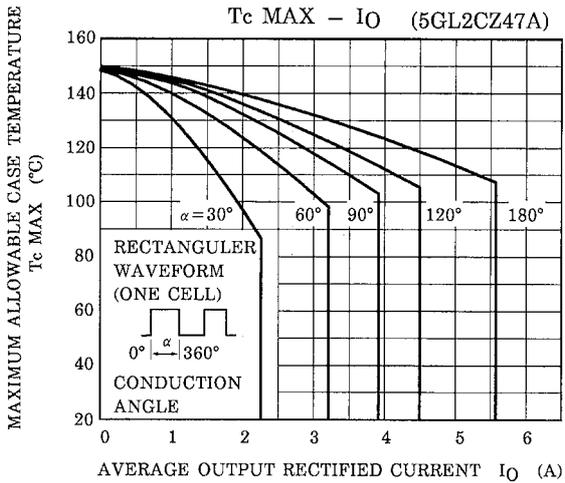
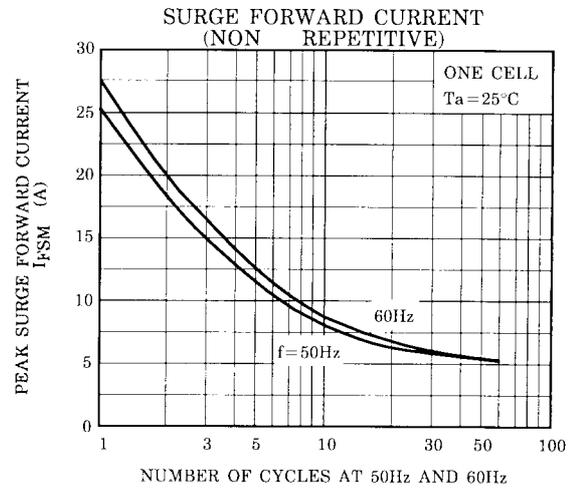
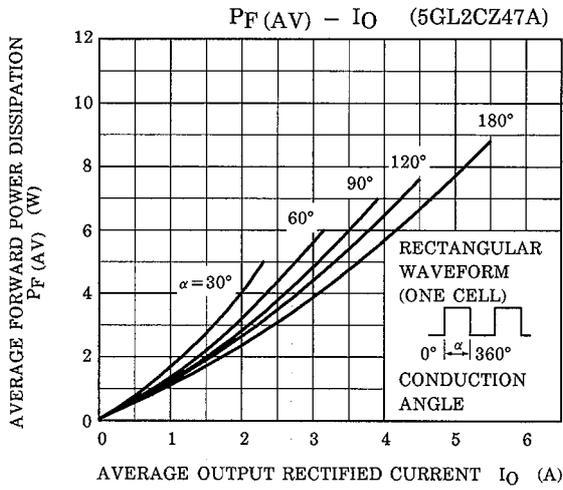
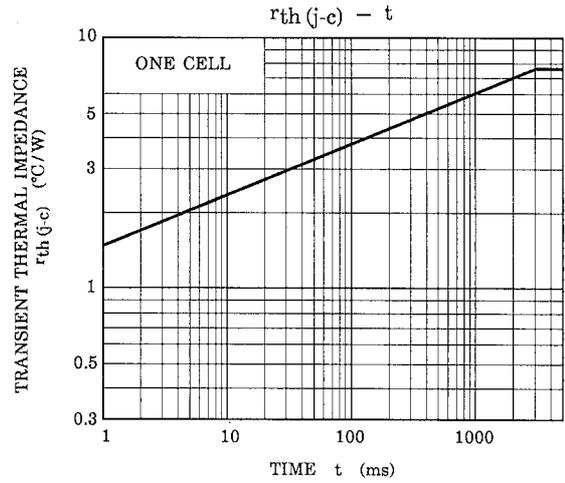
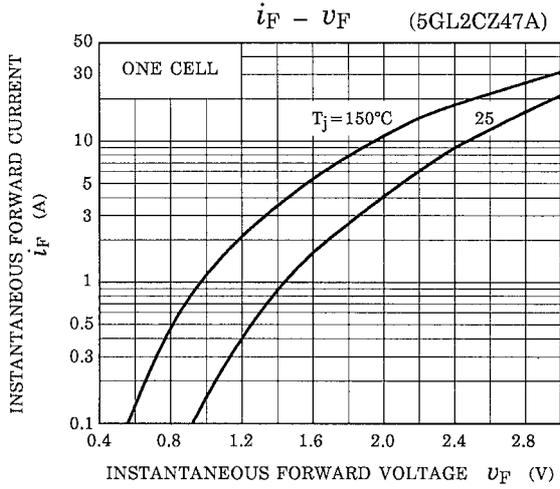
## MARKING



*1	MARK	5DL2CZ	TYPE	5DL2CZ47A
		5FL2CZ		5FL2CZ47A
		5GL2CZ		5GL2CZ47A
*2	A			
*3	Lot Number □ □ - Month (Starting from Alphabet A) L - Year (Last Number of the Christian Era)			







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000707EAA

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