

10DL2CZ47A, 10FL2CZ47A, 10GL2CZ47A

SWITCHING MODE POWER SUPPLY APPLICATIONS CONVERTER & CHOPPER APPLICATION

• Repetitive Peak Reverse Voltage : VRRM = 200 V, 300 V, 400 V

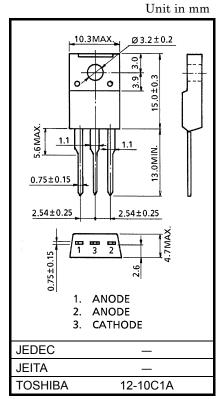
• Average Output Rectified Current $: I_O = 10 A$

• Ultra Fast Reverse-Recovery Time $: t_{rr} = 35 \text{ ns (Max)}$

• Low Switching Losses and Output Noise

MAXIMUM RATINGS (Ta = 25°C)

CHARACT	ERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	10DL2CZ47A		200		
	10FL2CZ47A	V_{RRM}	300	V	
	10GL2CZ47A		400		
Average Output Rectified Current		IO	10	Α	
Peak One Cycle Surge Forward Current (Sine Wave)		leon	50 (50H _Z)	А	
		IFSM	55 (60H _Z)	A	
Junction Temperature		Tj	-40~150	°C	
Storage Temperature Range		T _{stg}	-40~150	°C	
Screw Torque		_	— 0.6		



Weight: 2.0g

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

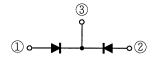
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

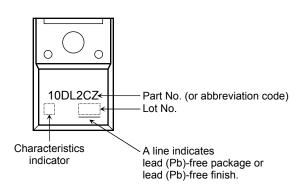
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	10DL2CZ47A	V _{FM}	I _{FM} =5A	_	_	0.98	
	10FL2CZ47A			_	_	1.3	V
	10GL2CZ47A			1	1	1.8	
Repetitive Peak Reverse Current (Note 1)	10DL2CZ47A	I _{RRM}	V _{RRM} =Rated	1	1	10	
	10FL2CZ47A			ı	ı	10	μΑ
	10GL2CZ47A			ı	ı	50	
Reverse Recovery Time (Note 1)		t _{rr}	I _F =2A, di / dt=-20A / μs	ı	ı	_	ns
Forward Recovery Time (Note 1)		t _{fr}	I _F =1A			_	ns
Thermal Resistance		R _{th (j-c)}	Total DC, Junction to Case	_	_	_	°C/W

Note 1: A value applied to one cell.

POLARITY



MARKING



Abbreviation Code	Part No.		
10DL2CZ	10DL2CZ47A		
10FL2CZ	10FL2CZ47A		
10GL2CZ	10GL2CZ47A		

