TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

16DL2CZ47A,16FL2CZ47A

SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

• Repetitive Peak Reverse Voltage $: V_{RRM} = 200, 300V$

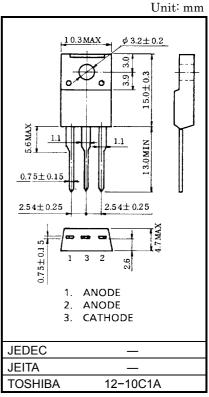
• Average Output Rectified Current : IO = 16A

• Ultra Fast Reverse–Recovery Time: trr = 35ns (Max)

• Low Switching Losses and Output Noise.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Repetitive Peak	16DL2CZ47A	V _{RRM}	200	V	
Reverse Voltage	16FL2CZ47A	V KKM	100		
Average Output Rectified Current (Full Sine Waveform)		IO	16	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)		leon	80 (50Hz)	А	
		IFSM	88 (60Hz)		
Junction Temperature		Tj	-40~150	°C	
Storage Temperature Range		T _{stg}	-40~150	°C	
Screw Torque		_	0.6	N·m	



Weight: 2.0g

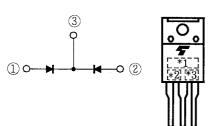
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage (Note 1)	16DL2CZ47A	V _{FM} I _{FM} = 8A		_	_	0.98	V
	16FL2CZ47A	T VEM III	IFM - OA	-	_	1.3	v
Repetitive Peak ReverseCurrent (Note 1)		I _{RRM}	V _{RRM} = Rated	l	1	50	μΑ
Reverse Recovery Time (Note 1)		t _{rr}	$I_F = 2.0A$, di / dt = $-50A$ / μ s	١	_	35	ns
Forward Recovery Time (Note 1)		t _{fr}	I _F = 1.0A	ı	_	100	ns
Thermal Resistance		R _{th (j−c)}	DC Total, Junction to Case	1	_	3.3	°C/W

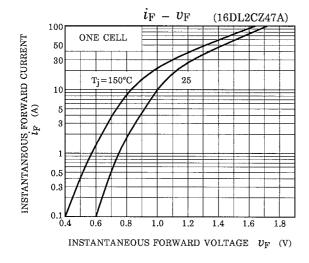
Note 1: A value of one cell.

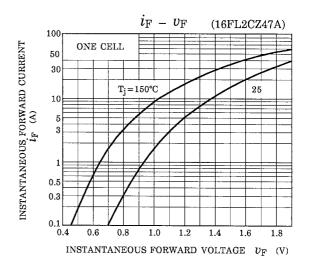
POLARITY

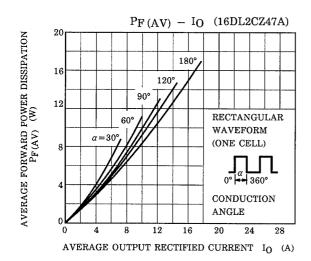
MARKING

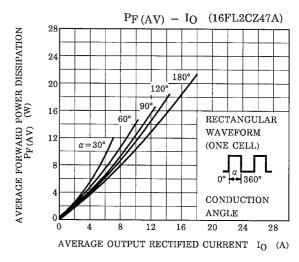


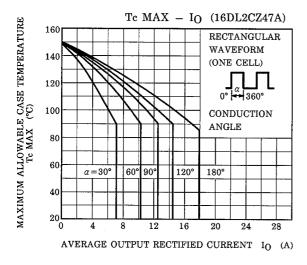
* 1	MARK	16DL2CZ	TYPE	16DL2CZ47A		
!		16FL2CZ		16FL2CZ47A		
* 2	Α					
* 3	Lot Number					

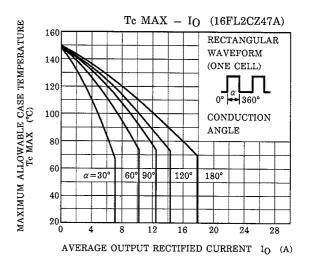




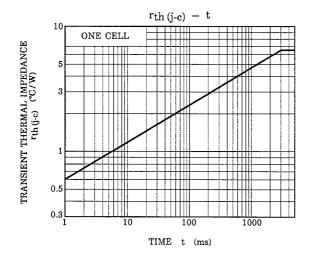


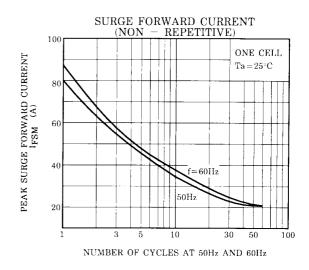


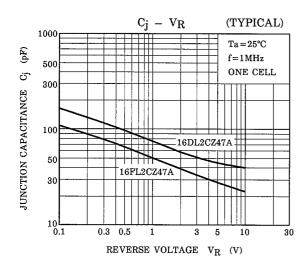




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