TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

20DL2CZ47A,20FL2CZ47A

SWITCHING MODE POWER SUPPLY APPLICATIONS CONVERTER & CHOPPER APPLICATION

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

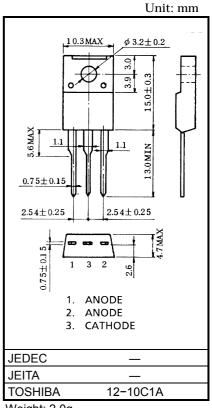
Average Output Rectified Current : Io = 20A

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

• Low Switching Losses and Low Output Noise

MAXIMUM RATINGS (Ta = 25°C)

CHARAC	TERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	20DL2CZ47A	V _{RRM}	200	V	
	20FL2CZ47A	VRRM	300		
Average Output Rectified Current (Full Sine Waveform)		IO	20	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)		I _{FSM}	100 (50H _Z)	А	
			110 (60H _Z)		
Junction Temperature		Tj	-40~150	°C	
Storage Temperatu	ıre Range	T _{stg}	-40~150	°C	
Screw Torque		_	0.6	N·m	



Weight: 2.0g

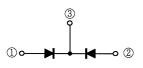
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage (Note 1)	20DL2CZ47A	V_{FM}	I _{FM} = 10A	_	_	0.98	V
	20FL2CZ47A	VEM	IFM - TOA	1	_	1.3	V
Repetitive Peak Reverse Current (Note 1)		I _{RRM}	V _{RRM} = Rated	l	1	50	μA
Reverse Recovery Tim	ne (Note 1)	t _{rr}	$I_F = 2.0A$, di / dt = -50A / μ s	1	_	35	ns
Forward Recovery Time (Note 1)		t _{fr}	I _F = 1.0A	I	_	100	ns
Thermal Resistance		R _{th (j-c)}	DC Total, Junction to Case	I	_	3.0	°C/W

Note 1: A value of one cell.

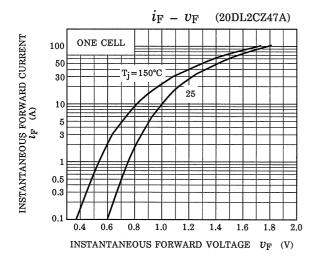
POLARITY

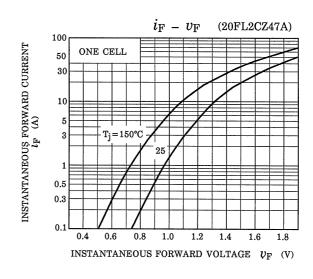
MARKING

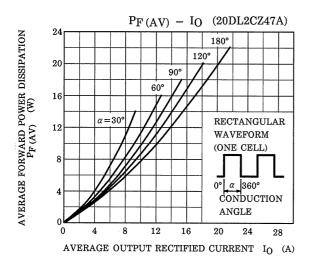


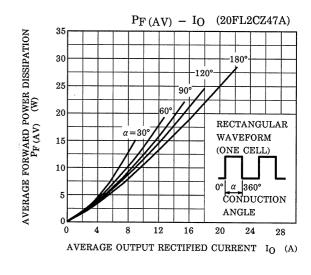


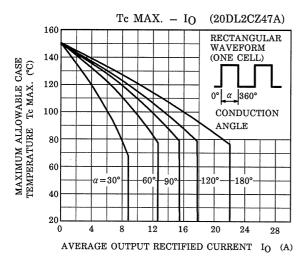
	* 1	MARK	20DL2CZ	TYPE	20DL2C47A		
	1		20FL2CZ		20FL2C47A		
I	* 2	Α					
	* 3	Lot Number Month (Starting from Alphabet A)					

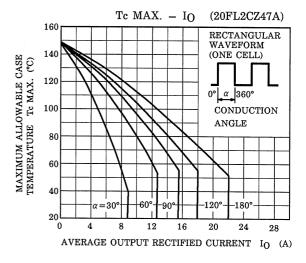




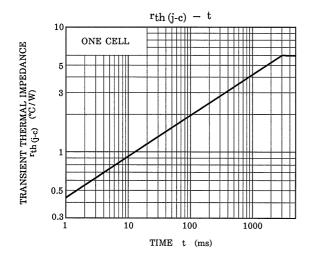


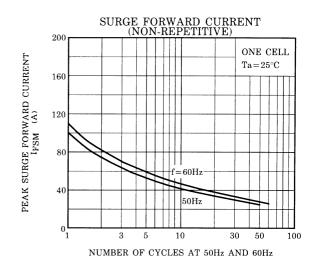


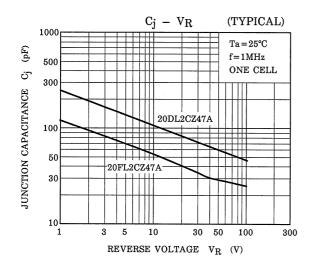




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