

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

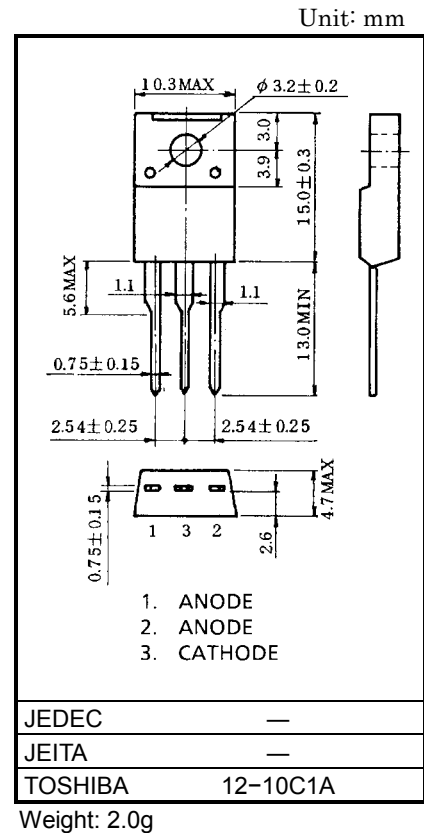
20DL2CZ47A, 20FL2CZ47A

SWITCHING MODE POWER SUPPLY APPLICATIONS
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage : $V_{RRM} = 200, 300V$
- Average Output Rectified Current : $I_O = 20A$
- Ultra Fast Reverse-Recovery Time : $t_{rr} = 35ns$ (Max)
- Low Switching Losses and Low Output Noise

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	20DL2CZ47A	V_{RRM}	200	V
	20FL2CZ47A		300	
Average Output Rectified Current (Full Sine Waveform)		I_O	20	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	100 (50Hz)	A
			110 (60Hz)	
Junction Temperature		T_j	-40~150	$^\circ C$
Storage Temperature Range		T_{stg}	-40~150	$^\circ C$
Screw Torque		—	0.6	N·m

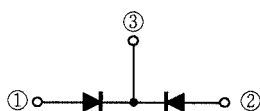


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage (Note 1)	20DL2CZ47A	$I_{FM} = 10A$	—	—	0.98	V
	20FL2CZ47A		—	—	1.3	
Repetitive Peak Reverse Current (Note 1)	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	50	μA
Reverse Recovery Time (Note 1)	t_{rr}	$I_F = 2.0A, di / dt = -50A / \mu s$	—	—	35	ns
Forward Recovery Time (Note 1)	t_{fr}	$I_F = 1.0A$	—	—	100	ns
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	—	3.0	$^\circ C / W$

Note 1: A value of one cell.

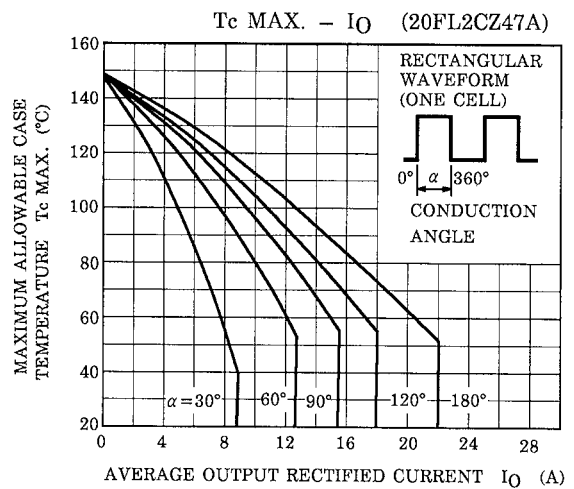
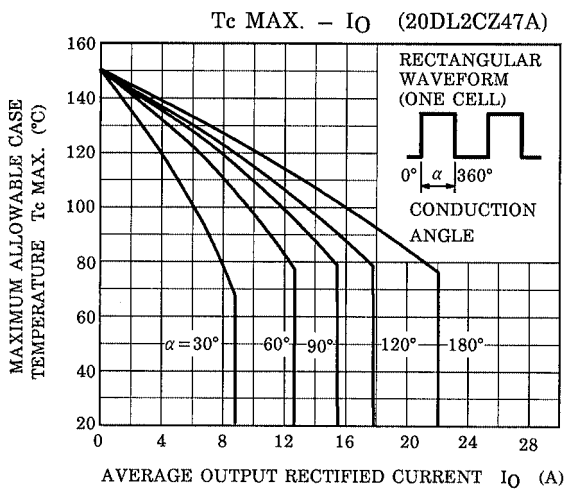
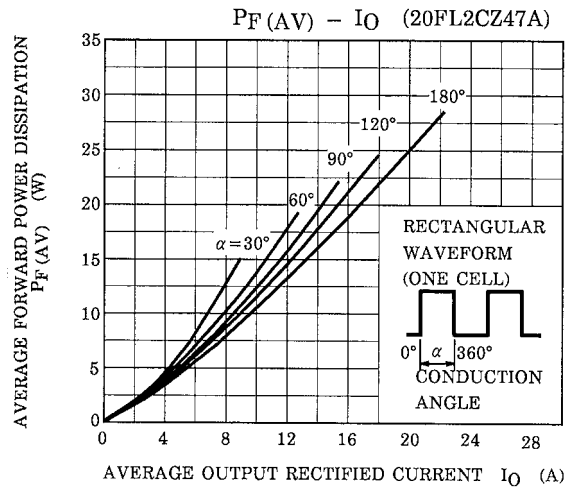
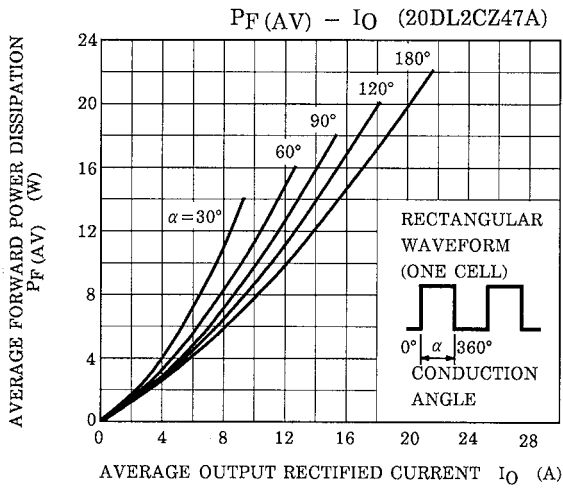
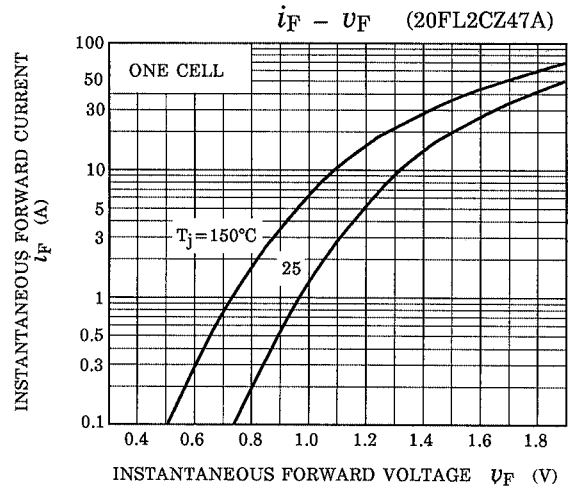
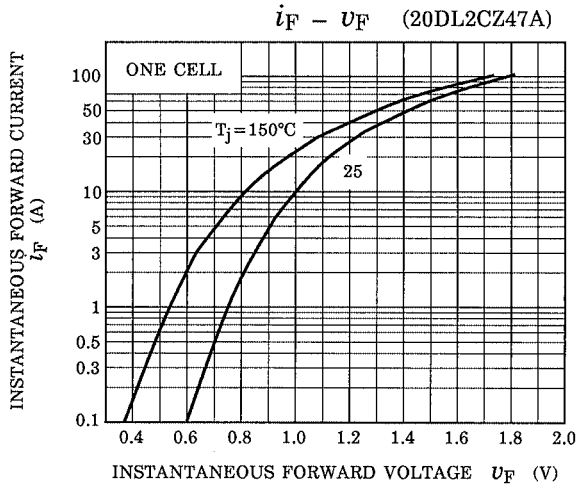
POLARITY

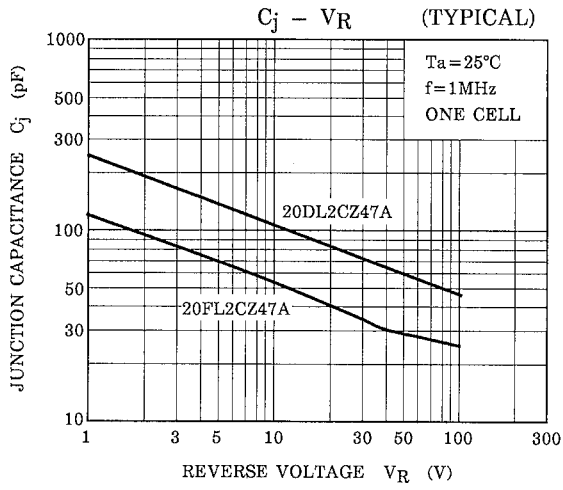
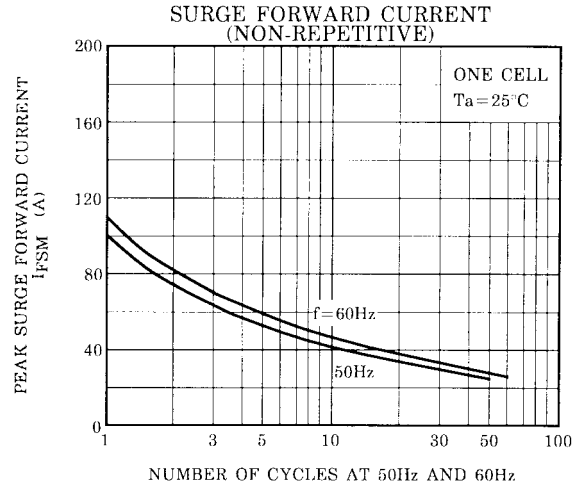
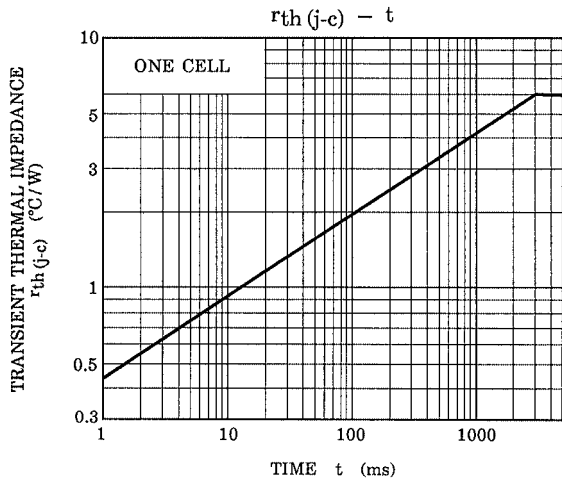


MARKING



* 1	MARK	20DL2CZ	TYPE	20DL2C47A
		20FL2CZ		20FL2C47A
* 2	A			
* 3	Lot Number			
	□	□	Month (Starting from Alphabet A)	
	□	Year (Last Number of the Christian Era)		





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