

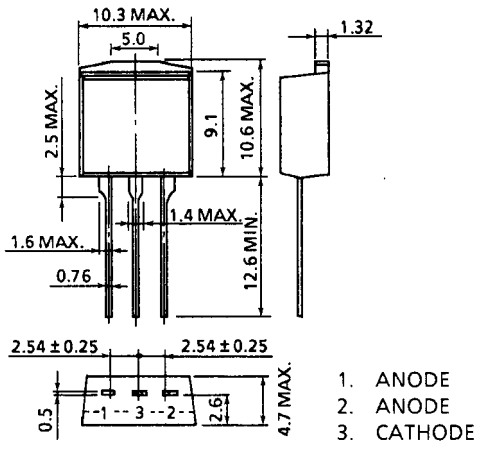
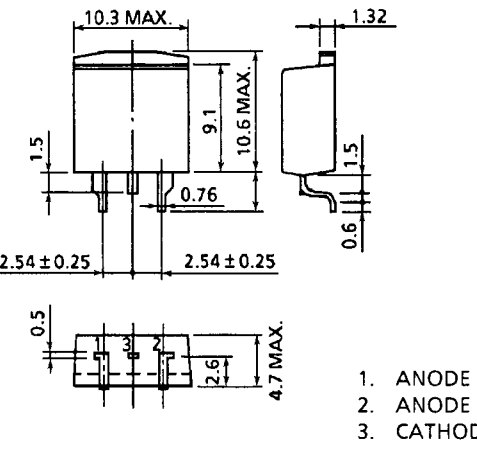
TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

## 20DL2C48A,U20DL2C48A,20FL2C48A,U20FL2C48A

SWITCHING MODE POWER SUPPLY APPLICATION  
 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 Output Noise.

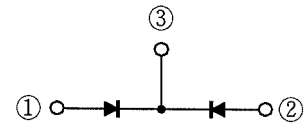
Unit in mm

20DL2C48A,20FL2C48A,	U20DL2C48A,U20FL2C48A
 <p>1. ANODE 2. ANODE 3. CATHODE</p>	 <p>1. ANODE 2. ANODE 3. CATHODE</p>
JEDEC —	JEDEC —
EIAJ —	EIAJ —
TOSHIBA 12-10D1A	TOSHIBA 12-10D2A

### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	20DL2C48A	VRRM	200	V
	U20DL2C48A			
	20FL2C48A		300	
	U20FL2C48A			
Average Output Rectified Current		IO	20	A
Peak One Cycle Surge Forward Current		IFSM	100 (50Hz)	A
			110 (60Hz)	
Junction Temperature		Tj	-40~150	°C
Storage Temperature Range		Tstg	-40~150	°C

### POLARITY

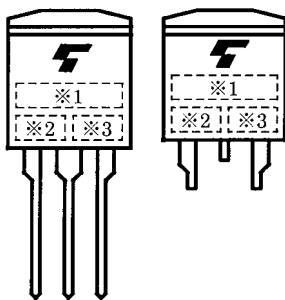


### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

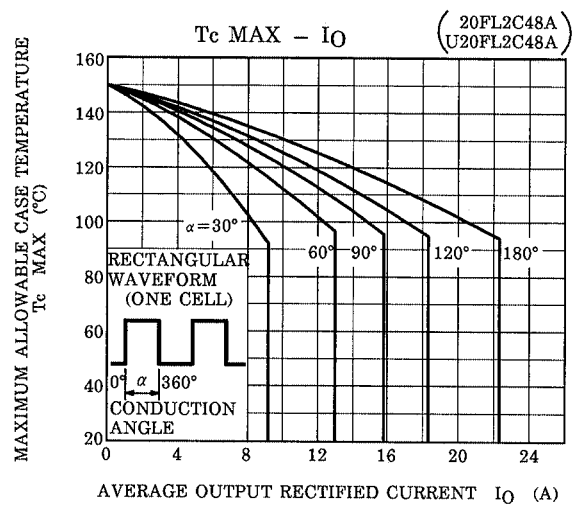
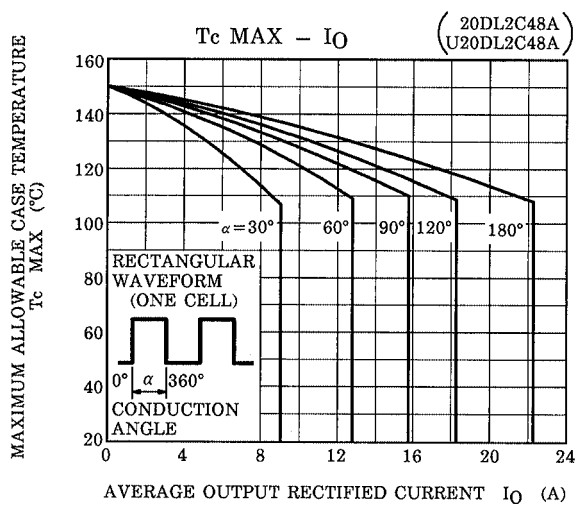
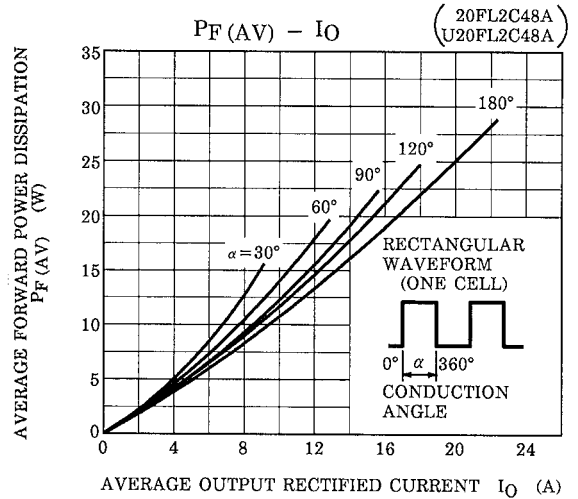
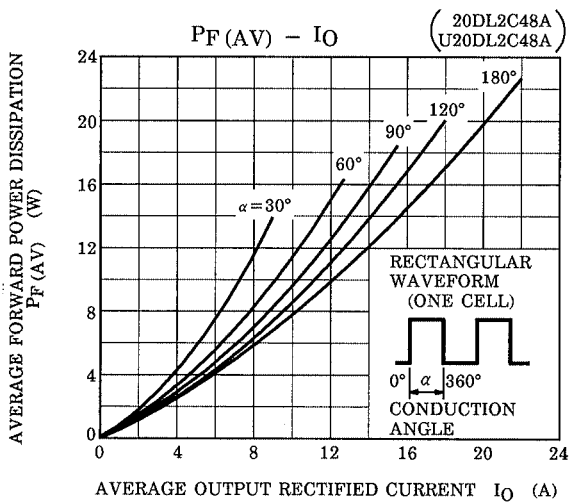
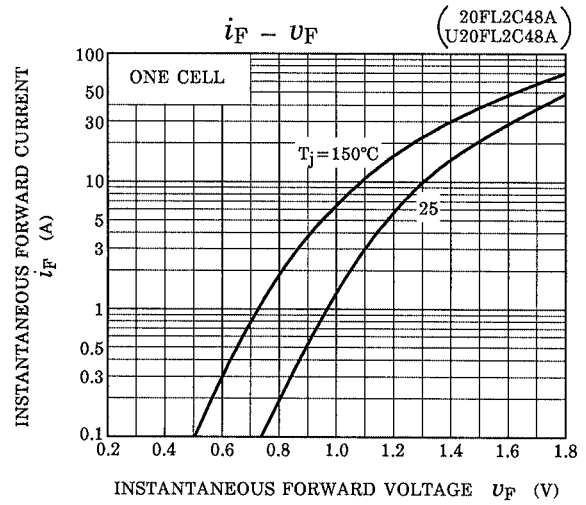
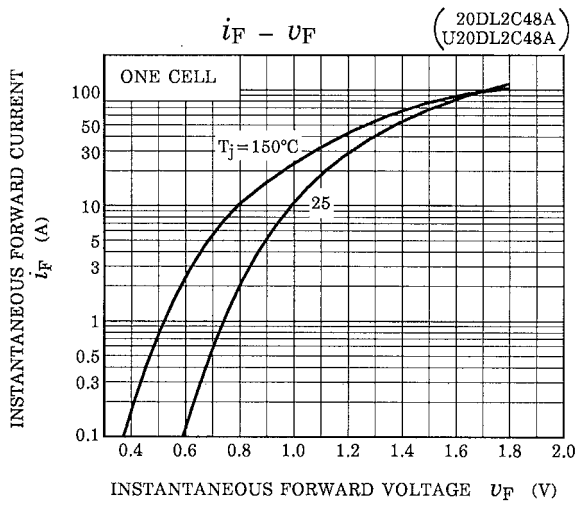
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	20DL2C48A	VFM	IFM=10A	—	—	0.98	V
	U20DL2C48A						
	20FL2C48A			—	—	1.3	
	U20FL2C48A						
Repetitive Peak Reverse Current		I <sub>RRM</sub>	VRRM=Rated	—	—	50	μA
Reverse Recovery Time		t <sub>rr</sub>	IF=2A, di / dt=-50A / μs	—	—	35	ns
Forward Recovery Time		t <sub>fr</sub>	IF=1A	—	—	100	ns
Thermal Resistance		Rth (j-c)	DC Total	—	—	1.6	°C / W

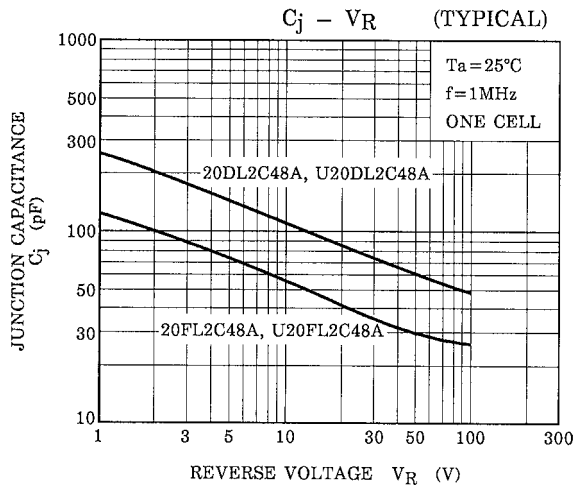
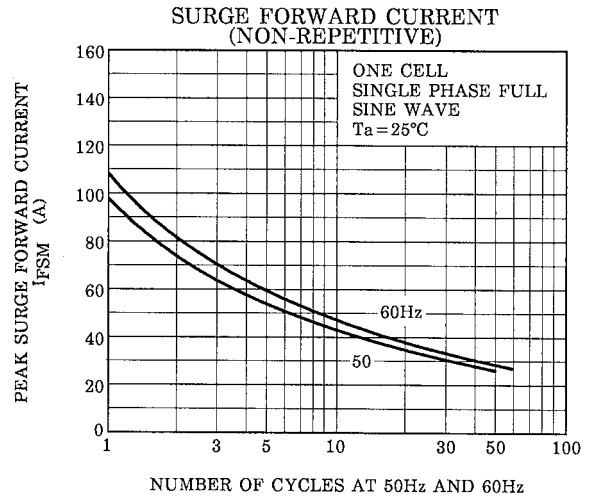
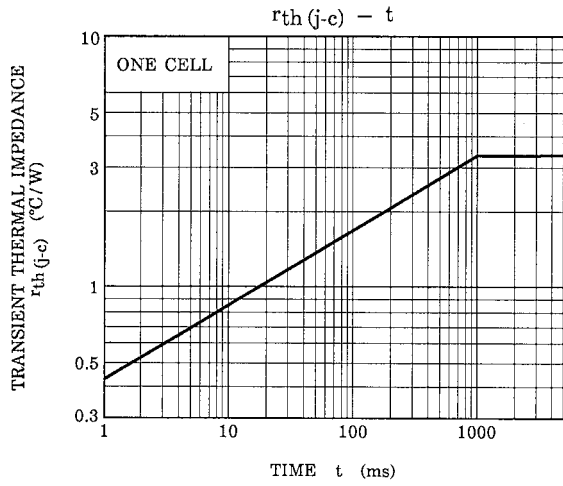
V<sub>FM</sub>, I<sub>RRM</sub>, t<sub>rr</sub>, t<sub>fr</sub> : A Value of one cell.

### MARKING



* 1	MARK	20DL2C	TYPE	20DL2C48A, U20DL2C48A
		20FL2C		20FL2C48A, U20FL2C48A
* 2	A			
* 3	Lot Number □□—Month (Starting from Alphabet A)   —Year (Last Number of the Cristian Era)			





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000707EAA

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