

5DL2C48A, 5FL2C48A, U5DL2C48A, U5FL2C48A

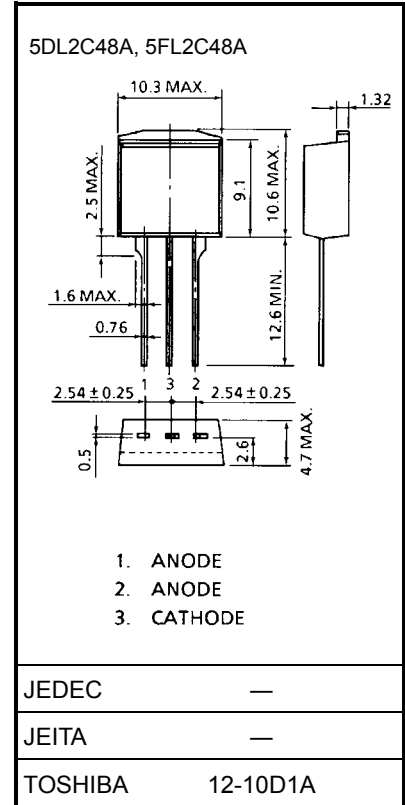
Switching Mode Power Supply Application
Converter & Chopper Application

- Repetitive peak reverse voltage: $V_{DRM} = 200, 300 \text{ V}$
- Average output rectified current: $I_O = 5 \text{ A}$
- Ultra fast reverse-recovery time: $t_{rr} = 35 \text{ ns (Max)}$
- Low switching losses and output noise

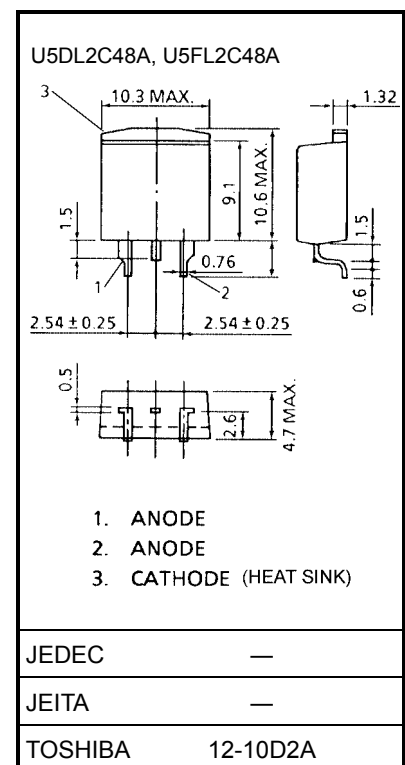
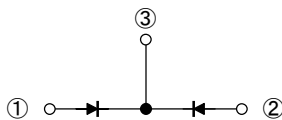
Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics		Symbol	Rating	Unit
Repetitive peak Repetitive voltage	5DL2C48A	V _{RRM}	200	V
	U5DL2C48A			
	5FL2C48A			
	U5FL2C48A			
Average output rectified current		I _O	5	A
Peak one cycle surge forward current		I _{FSM}	25 (50 Hz)	A
			27.5 (60 Hz)	
Junction temperature		T _j	−40~150	°C
Storage temperature range		T _{stg}	−40~150	°C

Unit: mm



Polarity

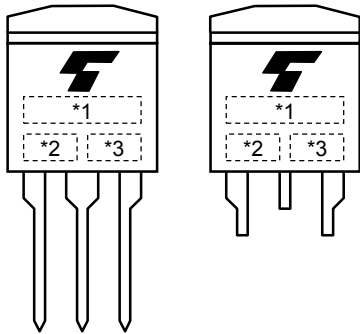


Electrical Characteristics (Ta = 25°C)

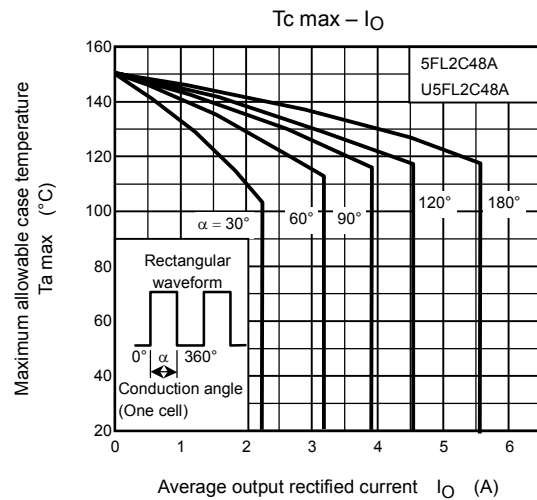
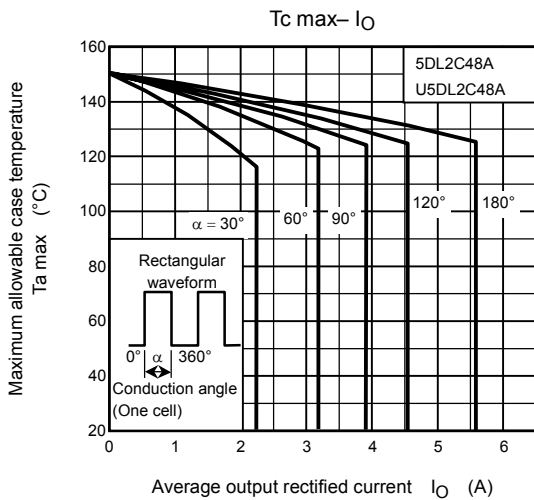
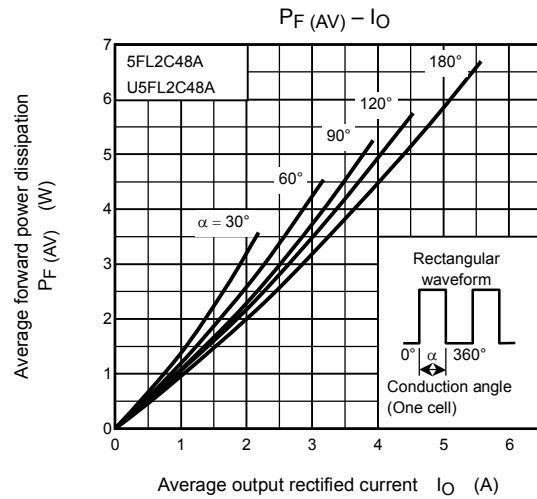
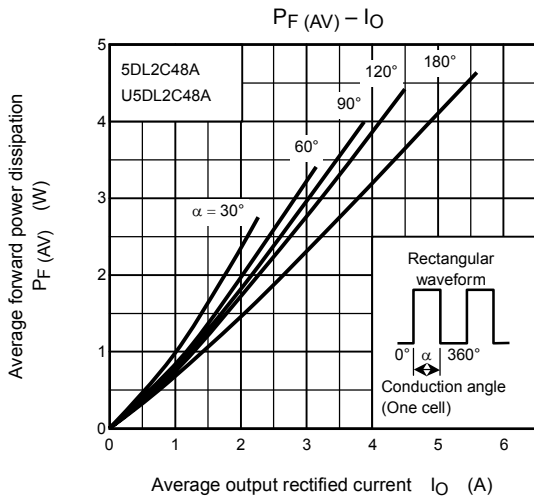
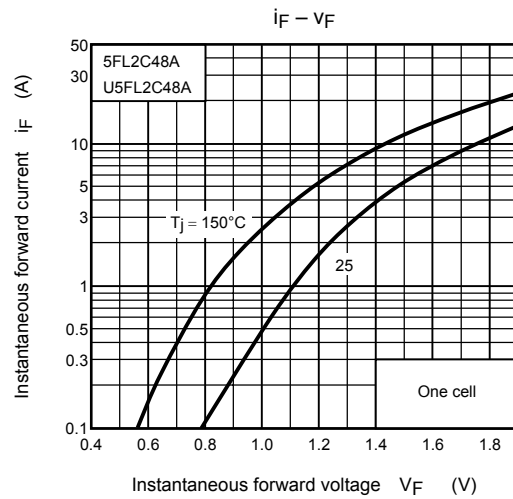
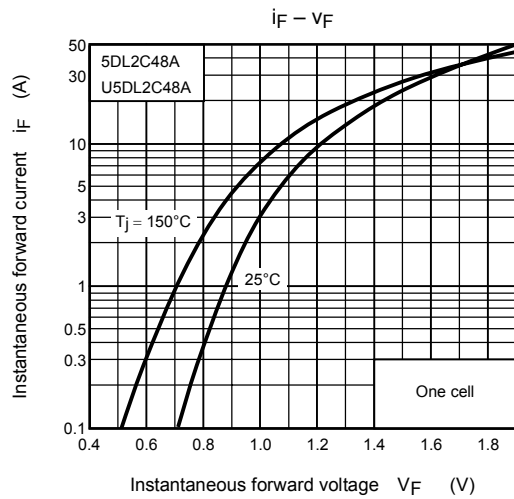
Characteristics		Symbol	Test Condition	Typ.	Max	Unit
Peak forward voltage	5DL2C48A	V _{FM}	I _{FM} = 2.5 A	—	0.98	V
	U5DL2C48A					
	5FL2C48A			—	1.3	
	U5FL2C48A					
Repetitive peak reverse current		I _{RRM}	V _{RRM} = Rated	—	10	μA
Reverse recovery time		t _{rr}	I _F = 2 A, di/dt = -20 A/μs	—	35	ns
Forward recovery time		t _{fr}	I _F = 1 A		100	ns
Thermal resistance		R _{th(j-c)}	DC total, junction to case	—	3.5	°C/W

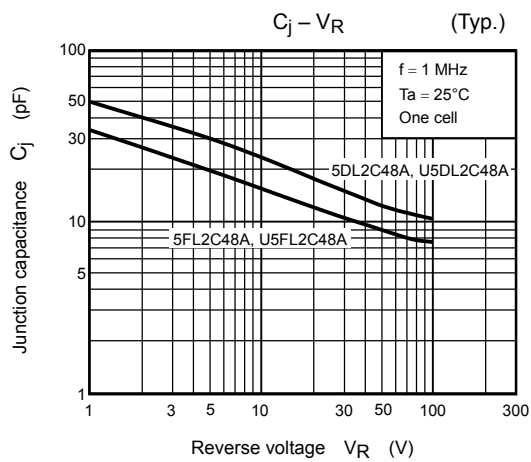
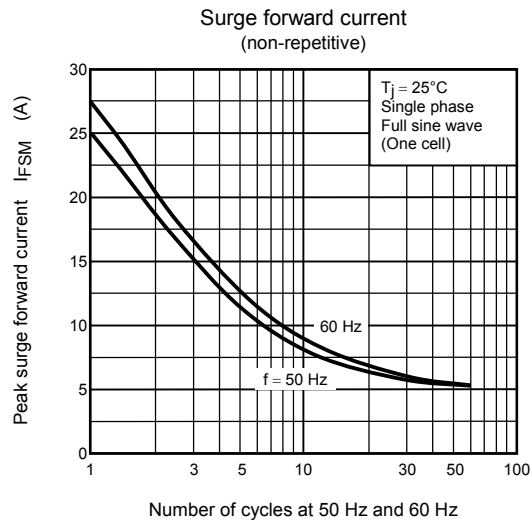
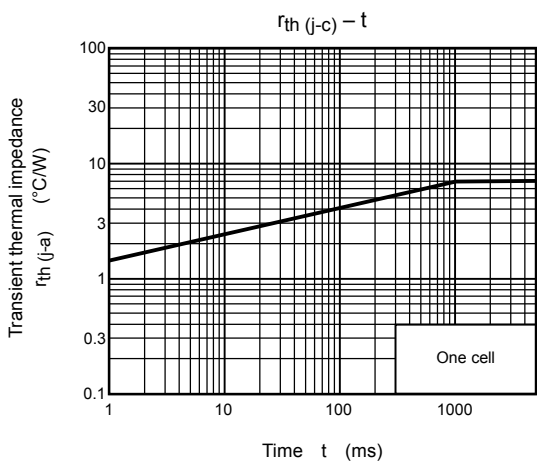
V_{FM}, I_{RRM}, t_{rr}, t_{fr}: A Value of one cell.

Marking



*1	Mark	5DL2C	Type	5DL2C48A, U5DL2C48A
		5FL2C		5FL2C48A, U5FL2C48A
*2	A			
*3	Lot number Month of manufacture (January to December are denoted by letter A to L respectively.) Year of manufacture (Last decimal digit of the year of manufacture)			





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