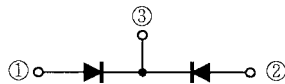


# 16FL2C41A

## SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

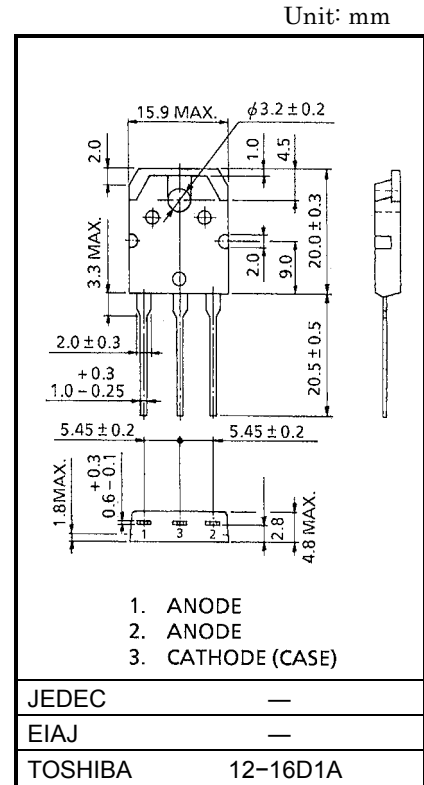
- Repetitive Peak Reverse Voltage :  $V_{RRM}=300V$
- Average Output Rectified Current :  $I_O=16A$
- Ultra Fast Reverse-Recovery Time :  $t_{rr}=35ns$  (Max.)
- Low Switching Loss and Output Noise.

### POLARITY



### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	300	V
Average Output Rectified Current (Full Sine Waveform)	$I_O$	16	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	80 (50Hz)	A
		88 (60Hz)	
Junction Temperature	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C



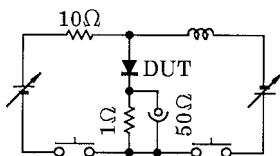
Weight: 4.85g

### ELECTRICAL CHARACTERISTICS (Ta = 25°C) (Note 1)

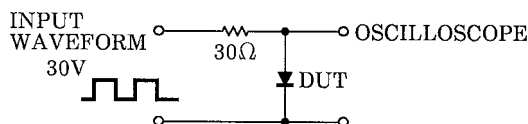
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=8A$	—	1.3	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=300V$	—	50	μA
Reverse Recovery Time	$t_{rr}$	$I_F=2.0A$ $di/dt=-50A/\mu s$ (Note 2)	—	35	ns
Forward Recovery Time	$t_{fr}$	$I_F=1.0A$ (Note 3)	—	100	ns
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	1.9	°C/W

Note 1: A value of one cell.

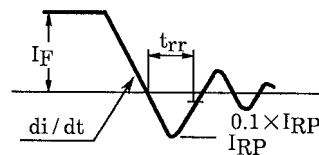
Note 2:  $t_{rr}$  TEST CIRCUIT



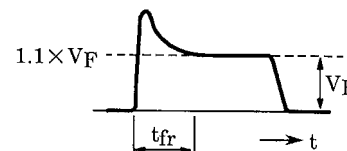
Note 3:  $t_{fr}$  TEST CIRCUIT

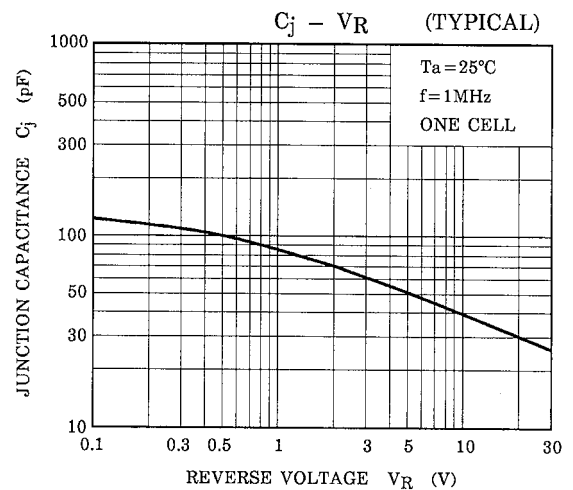
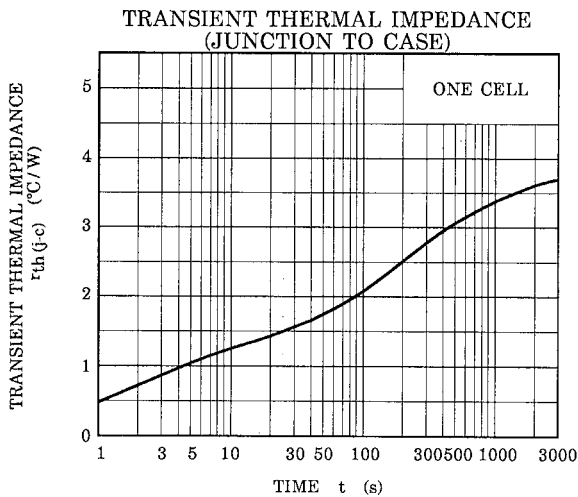
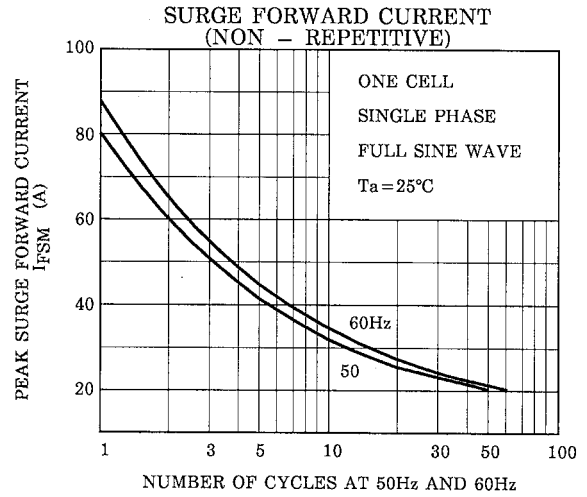
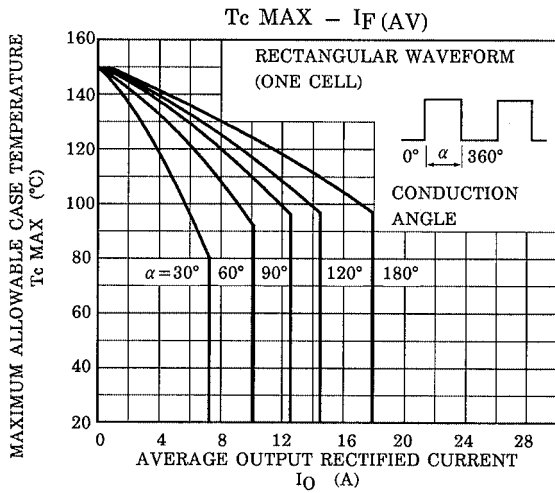
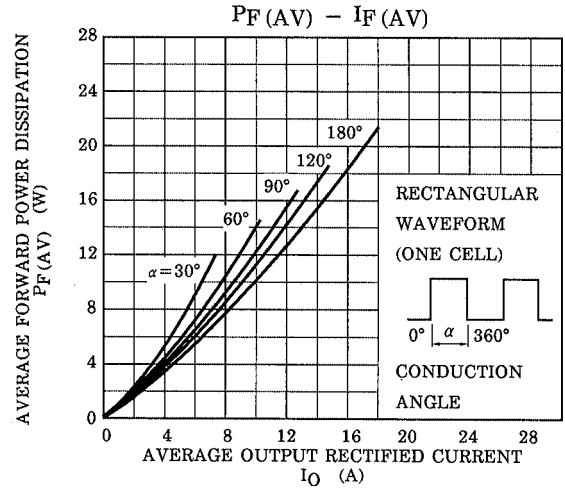
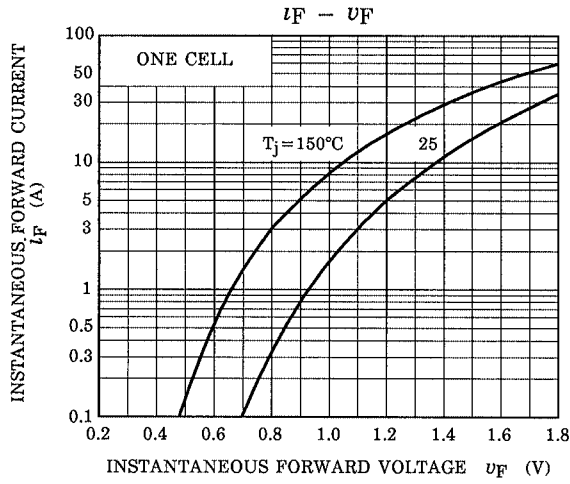


$t_{rr}$  Waveform



$t_{fr}$  Waveform





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