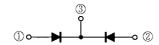
TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

16FL2C41A

SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

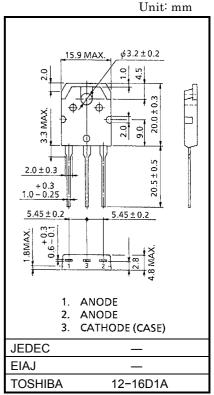
• Low Switching Loss and Output Noise.

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)	IO	16	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	80 (50H _Z)	A	
		88 (60H _Z)		
Junction Temperature	Tj	-40~150	°C	
Strage Temperature Range	T _{stg}	-40~150	°C	



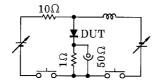
Weight: 4.85g

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

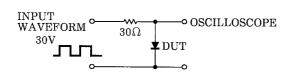
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Peak Forward Voltage	V_{FM}	I _{FM} =8A	_	1.3	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} =300V	_	50	μA
Reverse Recovery Time	t _{rr}	I _F =2.0A di / dt=-50A / μs (Note 2)	_	35	ns
Forward Recovery Time	t _{fr}	I _F =1.0A (Note 3)	_	100	ns
Thermal Resistance	R _{th (j-c)}	DC Total, Junction to Case	_	1.9	°C/W

Note 1: A value of one cell.

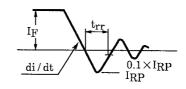
Note 2: t_{rr} TEST CIRCUIT



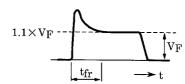
Note 3: tfr TEST CIRCUIT

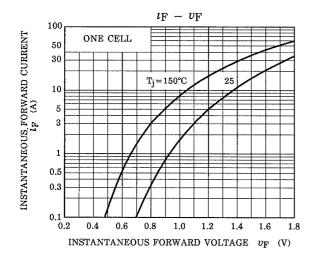


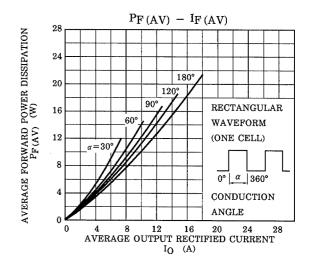
t_{rr} Waveform

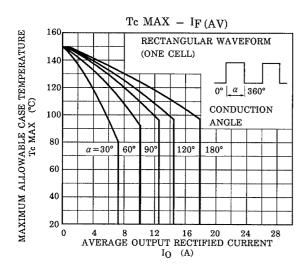


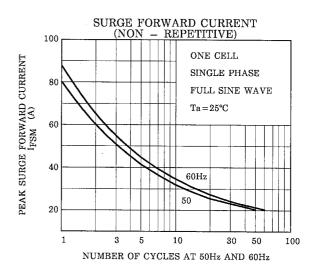
 t_{fr} Waveform

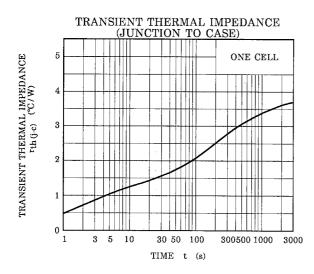


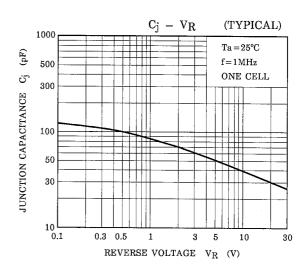












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