TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

16DL2C41A

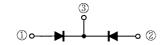
SWITCHING MODE POWER SUPPLY APPLICATION **CONVERTER & CHOPPER APPLICATION**

• Repetitive Peak Reverse Voltage $:V_{RRM}=200V$ Average Output Rectified Current : IO=16A

Ultra Fast Reverse-Recovery Time : trr=35ns (Max.) $: V_{FM} = 0.98V (Max.)$ Low Forward Voltage

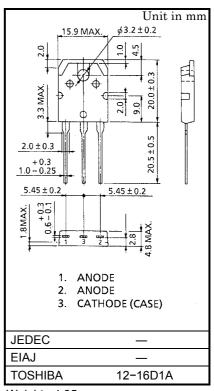
Low Switching Losses and Output Noise.

POLARITY



MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V_{RRM}	200	V	
Average Output Rectified Current (Full Sine Waveform)	IO	16	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	80 (50H _Z)	А	
		88 (60H _Z)		
Junction Temperature	Tj	-40~150	°C	
Strage Temperature Range	T _{stg}	-40~150	°C	



Weight: 4.85g

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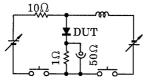
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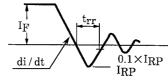
ELECTRICAL CHARACTERISTICS (Ta=25°C) (Note 1)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I _{FM} =8A	_	0.98	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} =Rated	_	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

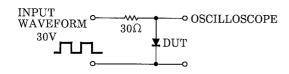
Note 1: A value of one cell. Note 2: t_{rr} TEST CIRCUIT



t_{rr} Waveform



Note 3: tfr TEST CIRCUIT



t_{fr} Waveform

