TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

10DL2C41A

SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER & CHOPPER APPLICATION

Repetitive Peak Reverse Voltage : V_{RRM}=200V

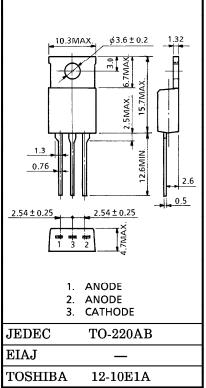
• Average Output Rectified Current: IO=10A

• Ultra Fast Reverse-Recovery Time: trr=35ns

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	v_{RRM}	V_{RRM} 200	
Average Output Rectified Current (Tc=116°C)	IO	10	
Peak One Cycle Surge Forward Current (Non Repetitive)	I_{FSM}	50 (50Hz)	A
Junction Temparature	T_j	-40~150	°C
Storage Temparature Range	$ m T_{stg}$	-40~150	°C
Screw Torque	_	0.6	N∙m

Unit in mm



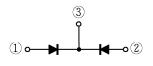
Weight: 2.0g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

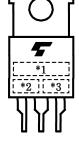
CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	$ m V_{FM}$	$I_{\mathbf{FM}} = 5A$	_	0.98	V
Repetitive Peak Reverse Current (Note 1)	I_{RRM}	$V_{ m RRM}$ = 200 V	_	10	μ A
Reverse Recovery time (Note 1)	t_{rr}	I_F =2A, di/dt= -20 A/ μ s	_	35	ns
Forward Recovery time (Note 1)	t_{fr}	$I_{\mathbf{F}} = 1.0 \mathbf{A}$		100	ns
Thermal Resistance	$R_{ ext{th (j-c)}}$	DC Total, Junction to Case	_	3.0	°C/W

Note 1: A value of one cell.

POLARITY



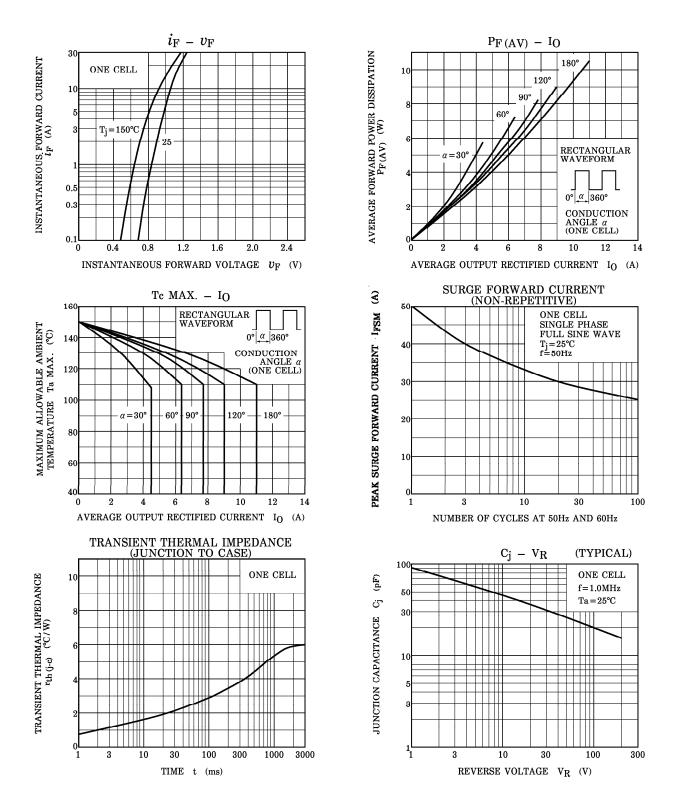
MARKING



*1	MARK	10DL2C		
*2	A			
*3	Lot Number Month (Starting from Alphabet A) Year (Last Number of the Christian E)			

961001EAA2

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