Unit in mm

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

30JL2C41

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

Repetitive Peak Reverse Voltage $: V_{RRM} = 600V$

Average Output Recified Current $: I_{O} = 30A$

Ultra Fast Reverse-Recovery Time : trr=50ns (Max.)

Low Switching Losses and Output Noise.

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	v_{RRM}	600	V
Average Output Rectified Current	IO	30	Α
Peak One Cycle Surge Forward Current (Sine Wave) IFSM		150 (50Hz)	٨
		165 (60Hz)	A
Junction Temperature	T_{j}	-40~150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~150	°C
Screw Torque	_	0.8	N∙m

 ϕ 3.2 ± 0.2 15.9 MAX. 2.0 ± 0.3 5.45 ± 0.2 5.45 ± 0.2 1. ANODE

ANODE

CATHODE

JEDEC EIAJ

TOSHIBA 12-16D1A

Weight: 4.85g

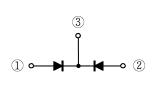
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

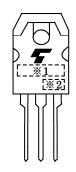
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	$v_{\mathbf{FM}}$	$I_{ extbf{FM}} \! = \! 15 ext{A}$	_	2.0	V
Repetitive Peak Reverse Current	$I_{ m RRM}$	$V_{RRM} = 600V$	l	50	μ A
Reverse Recovery time	t _{rr}	$I_F=2A$, di/dt= $-50A$ / μ s	l	50	ns
Forward Recovery time	t_{fr}	$I_{\mathbf{F}} = 1\mathbf{A}$		150	ns
Thermal Resistance	$ m R_{th~(j-c)}$	DC Total, Junction to Case	_	1.0	°C/W

 $V_{\mbox{FM}},\,I_{\mbox{RRM}},\,t_{\mbox{rr}},\,t_{\mbox{fr}}$: A value of one cell.

POLARITY

MARKING

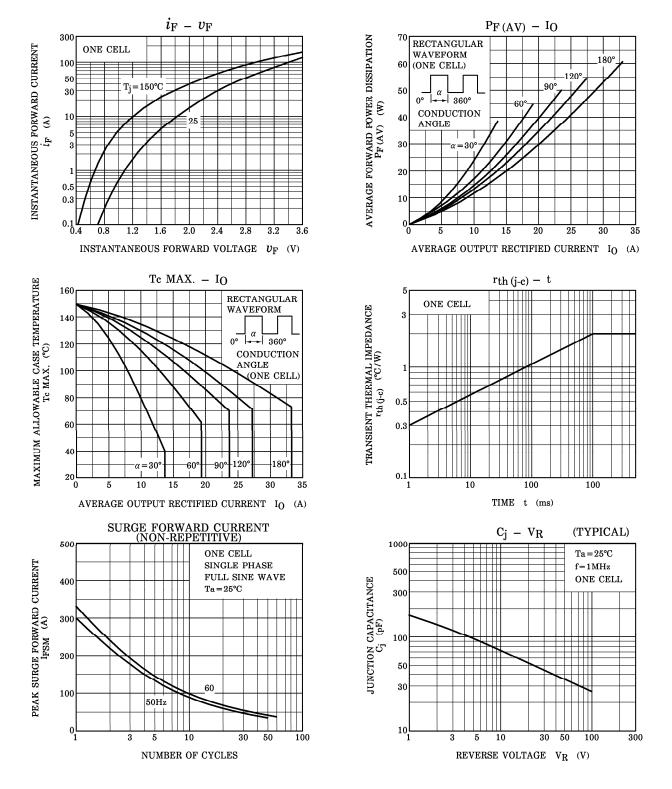




%1	MARK	30JL2C	
*2	Lot Number ——Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)		

961001EAA2

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