TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

5 D L 2 C 4 1 A

SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER & CHOPPER APPLICATION

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

• Average Output Rectified Current : IO=5A

• Ultra Fast Reverse-Recovery Time : t_{rr}=35ns

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	v_{RRM}	200	V
Average Output Rectified Current (Tc=126°C)	IO	I _O 5	
Peak One Cycle Surge Forward Current (Non Repetitive)	I_{FSM}	SM 25 (50Hz)	
Junction Temperature	T_{j}	-40~150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~150	°C
Screw Torque	_	0.6	N⋅m

Unit in mm 10.3MAX. \$\psi_{3.6\pmu} \cdot 0.2} \\ \text{1.32} \\ \text{1.32} \\ \text{1.32} \\ \text{2.54\pmu} \text{2.5} \\ \text{2.54\pmu} \text{2.54} \\ \text{3.54\pmu} \text{2.54} \\ \text{2.54\pmu} \text{2.54} \\ \text{3.54\pmu} \text{3.54\pmu} \\ \text{3.54\pmu} \text{3.54} \\ \text{3.54\pmu} \text{3.54} \\ \text{3.54\pmu} \text{3.54} \\ \text{3.54\pmu} \text{3.54\pmu} \\ \text{3.54\pmu} \text{3.54} \\ \text{3.54\pmu} \text{3.54}

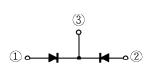
Weight: 2.0g

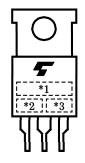
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	$ m V_{FM}$	$I_{\text{FM}} = 2.5 \text{A}$	_	0.98	V
Repetitive Peak Reverse Current (Note 1)	$I_{ m RRM}$	$ m V_{RRM}\!=\!200V$	-	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}	$I_{\mathbf{F}} = 1.0A$	_	100	ns
Thermal Resistance	$ m R_{th~(j-c)}$	DC Total, Junction to Case	_	4.0	°C/W

Note 1 : A value of one cell.

POLARITY MARKING

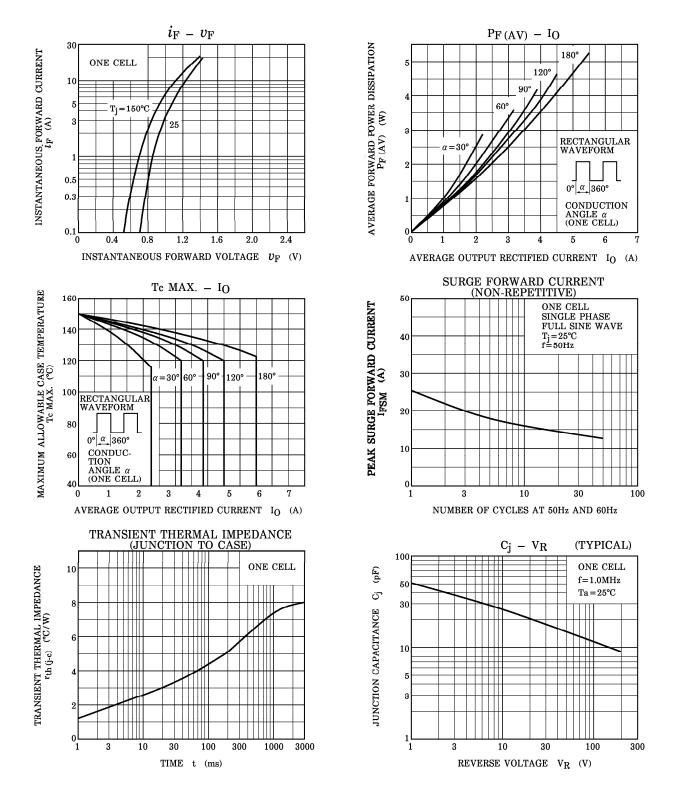




*1	MARK	5DL2C	
*2	A		
*3	Lot Number		

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