TOSHIBA High Efficiency Rectifier (HED) Silicon Epitaxial Junction Type

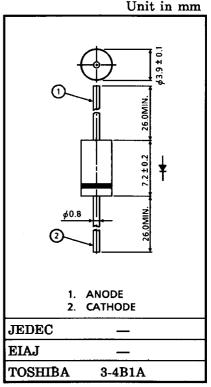
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#### Switching Mode Power Supply Applications

- Repetitive Peak Reverse Voltage: V<sub>RRM</sub> = 200 V
- Average Forward Current: IF (AV) = 1.5 A (Ta = 25°C)
- Very Fast Reverse-Recovery Time: t<sub>rr</sub> = 35 ns (max)
- Low Forward Voltage:  $V_{FM} = 0.98 \text{ V (max)}$
- Available to Reduce Switching Losses and Output Noise.

#### **Maximum Ratings**

Characteristics	Symbol	Rating	Unit	
Repetitive peak reverse voltage	$V_{RRM}$	200	V	
Average forward current (Ta = 25°C)	I <sub>F (AV)</sub>	1.5	Α	
Peak one cycle surge forward current (non-repetitive)	I <sub>FSM</sub>	60 (50 Hz)	А	
		66 (60 Hz)		
Junction temperature	Tj	-40 to 150	°C	
Storage temperature	T <sub>stg</sub>	-40 to 150	°C	



Weight: 0.47 g

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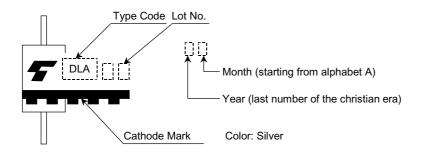
The information contained herein is subject to change without notice.



## **Electrical Characteristics (Ta = 25°C)**

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	$V_{FM}$	I <sub>FM</sub> = 1.5 A	_	_	0.98	V
Repetitive peak reverse current	I <sub>RRM</sub>	V <sub>RRM</sub> = 200 V	_	_	100	μΑ
Reverse recovery time	t <sub>rr</sub>	$I_F = 1 \text{ A, di/dt} = -30 \text{ A/}\mu\text{s}$	_	_	35	ns
Forward recovery time	t <sub>fr</sub>	I <sub>F</sub> = 1.0 A	_	_	100	ns
Thermal resistance	R <sub>th (j-a)</sub>	Junction to Ambient	_	_	100	°C/W
Thermal resistance	R <sub>th</sub> (j- ℓ)	Junction to Lead	_	_	30	°C/W

### Marking



Code	Туре
DLA	1R5DL41A

