TOSHIBA High Efficiency Rectifier (HED) Silicon Epitaxial Junction Type

1DL41A

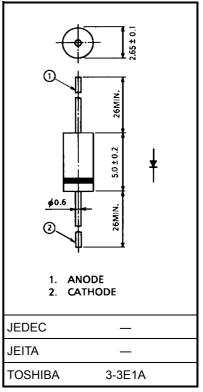
Switching Mode Power Supply Applications

Unit: mm

- Repetitive Peak Reverse Voltage: V_{RRM} = 200 V
- Average Forward Current: $I_F (AV) = 1.0 A (Ta = 64$ °C)
- Very Fast Reverse-Recovery Time: $t_{rr} = 35 \text{ ns (max)}$
- Low Forward Voltage: $V_{FM} = 0.98 \text{ V (max)}$
- Available to Reduce Switching Losses and Output Noise.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Repetitive peak reverse voltage	V_{RRM}	200	V	
Average forward current (Ta = 64°C)	I _{F (AV)}	1.0	Α	
Peak one cycle surge forward current (non-repetitive)	I _{FSM}	30 (50 Hz)	A	
		33 (60 Hz)		
Junction temperature	Tj	-40 to 150	°C	
Storage temperature range	T _{stg}	-40 to 150	°C	

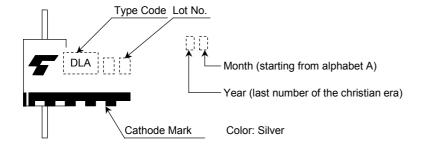


Weight: 0.225 g (typ.)

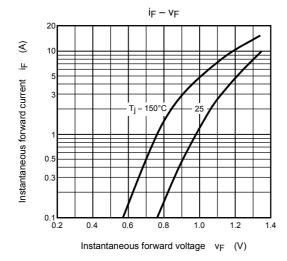
Electrical Characteristics (Ta = 25°C)

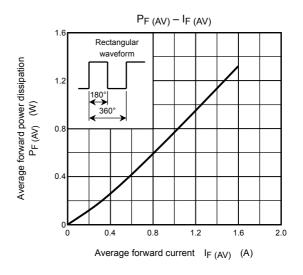
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	V_{FM}	I _{FM} = 1.0 A	_	_	0.98	V
Repetitive peak reverse current	I _{RRM}	V _{RRM} = 200 V	_	_	100	μА
Reverse recovery time	t _{rr}	$I_F = 1 \text{ A, di/dt} = -30 \text{ A/}\mu\text{s}$	_	_	35	ns
Forward recovery time	t _{fr}	I _F = 1.0 A	_	_	100	ns
Thermal resistance	R _{th (j-a)}	Junction to Ambient	_	_	115	°C/W
Thermal resistance	R _{th (j- λ)}	Junction to Lead	_	_	45	°C/W

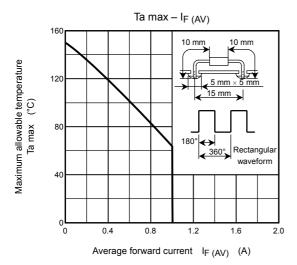
Marking

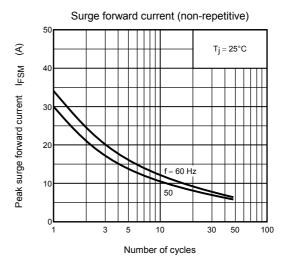


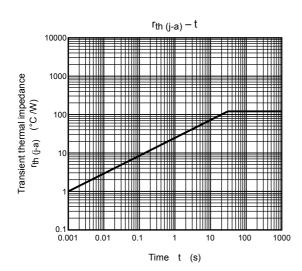
Code	Туре
DLA	1DL41A











2

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