TOSHIBA HIGH EFFICIENCY RECTIFIER (HED) SILICON EPITAXIAL JUNCTION TYPE

U1DL44A

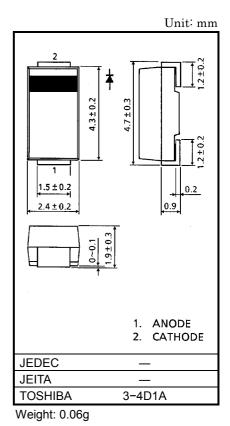
SWITCHING MODE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage $: V_{RRM} = 200V$
- Average Forward Current : IF (AV) = 1.0A
- Very Fast Reverse-Recovery Time : trr = 35ns (Max)
- Low Forward Voltage $: V_{FM} = 0.98V$
- Available to Reduce Switching Losses and Output Noise
- Surface Mounting Plastic Mold Package

MAXIMUM RATINGS (Ta = 25°C)

TOSHIBA

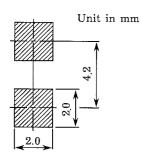
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V _{RRM}	200	V	
Average Forward Current	I _{F (AV)}	1.0	А	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	10 (50Hz)	A	
		11 (60Hz)		
Junction Temperature	Тј	T _j −40~150		
Storage Temperature	T _{stg}	-40~150	°C	



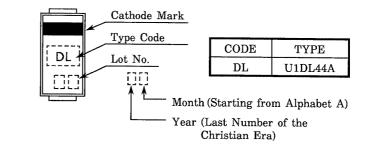
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 1.0A	_	_	0.98	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 200V	_	_	10	μA
Reverse Recovery Time	t _{rr}	I _F = 1A, di / dt = -30A / μs	_	_	35	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	_	_	100	ns

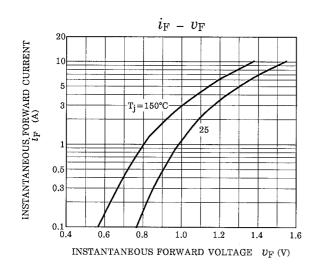
STANDARD SOLDERING PAD

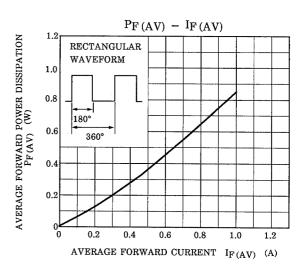


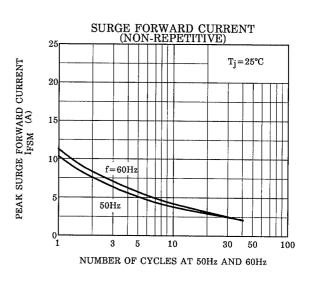
MARKING

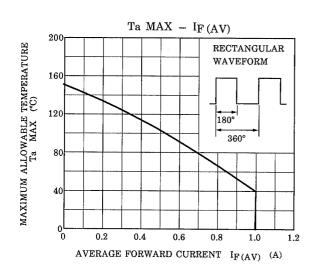


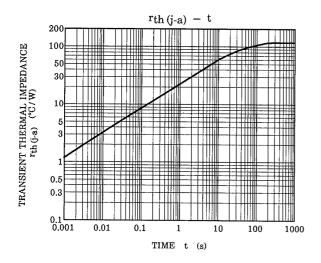
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