TOSHIBA HIGH EFFICIENCY RECTIFIER (HED) SILICON EPITAXIAL JUNCTION TYPE

U1DL44A

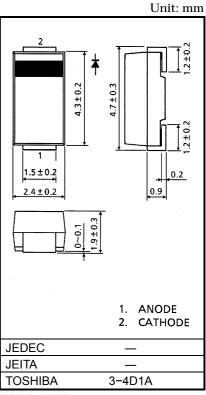
SWITCHING MODE POWER SUPPLY APPLICATIONS

Repetitive Peak Reverse Voltage : V_{RRM} = 200V
 Average Forward Current : I_F (AV) = 1.0A
 Very Fast Reverse-Recovery Time : t_{rr} = 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)

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



Weight: 0.06g

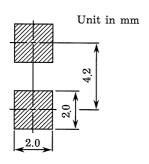
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

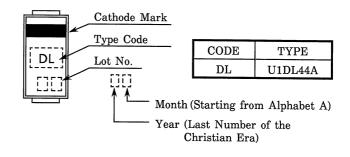
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	I _{FM} = 1.0A	_	_	0.98	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 200V	_	_	10	μΑ
Reverse Recovery Time	t _{rr}	I _F = 1A, di / dt = -30A / μs	_	_	35	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	_	_	100	ns

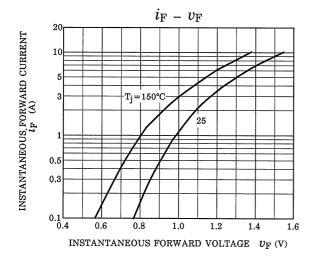
STANDARD SOLDERING PAD

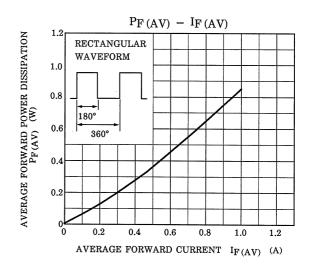
MARKING

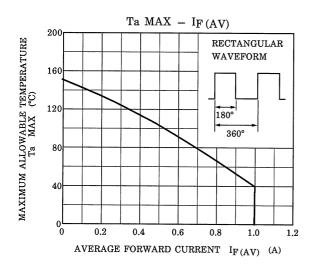
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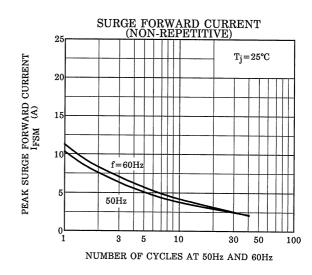


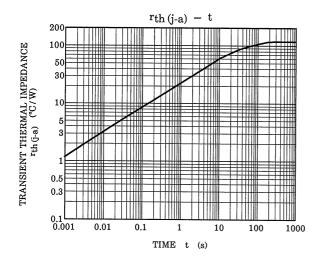












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