TOSHIBA 1DL42A

TOSHIBA HIGH EFFICIENCY RECTIFIER (HED) SILICON EPITAXIAL JUNCTION TYPE

1 D L 4 2 A

SWITCHING TYPE POWER SUPPLY APPLICATIONS

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

• Average Forward Current : I_{F(AV)}=1.0A

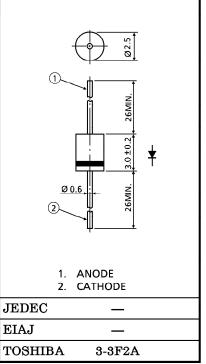
Very Fast Reverse-Recovery Time: t_{rr}=35ns (Max.)

• Low Forward Voltage : V_{FM}=0.98V (Max.)

• Available to Reduce Switching Losses and Output Noise.

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V_{RRM}	200	V	
Average Forward Current	I _{F (AV)}	1.0	A	
Peak One Cycle Surge Forward	Traces	30 (50Hz)	A	
Current (Non-Repetitive)	I_{FSM}	33 (60Hz)		
Junction Temperature	T_{j}	-40~150	°C	
Storage Temperature Range	$T_{ m stg}$	-40~150	°C	



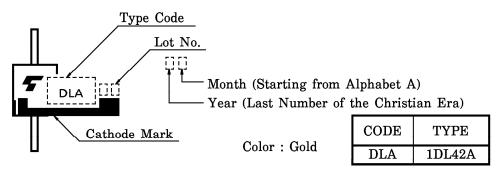
Unit in mm

Weight: 0.18g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

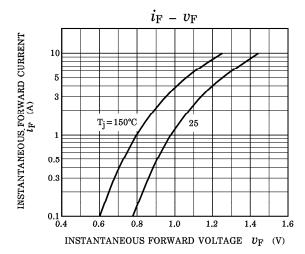
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{\mathbf{FM}}$	$I_{\text{FM}} = 1.0 A$	_	_	0.98	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 200V$	_	_	100	μ A
Reverse Recovery Time	t _{rr}	$I_F=1A$, di/dt=-30A/ μ s	_	_	35	ns
Forward Recovery Time	t _{fr}	$I_{\mathbf{F}} = 1.0 A$	_	_	100	ns

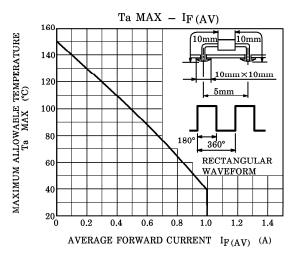
MARKING

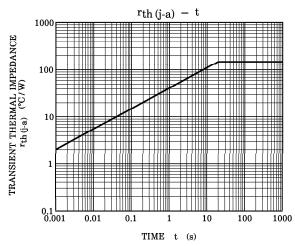


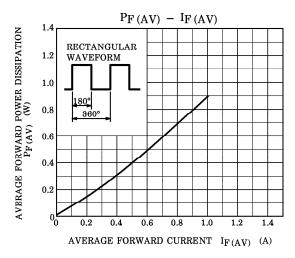
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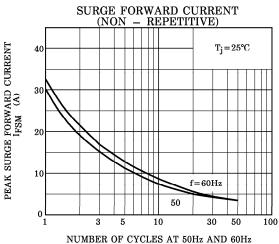
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