

TOSHIBA HIGH EFFICIENCY RECTIFIER (HED) SILICON EPITAXIAL JUNCTION TYPE

## 1DL42

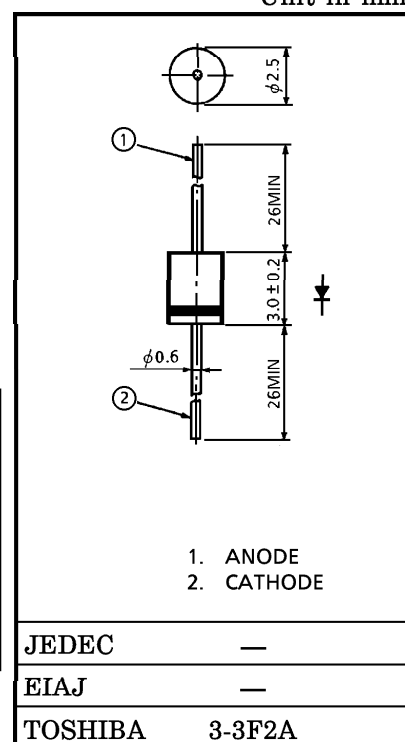
## SWITCHING TYPE POWER SUPPLY APPLICATIONS

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=200V$
- Average Forward Current :  $I_F(AV)=1.0A$
- Very Fast Reverse-Recovery Time :  $t_{rr}=60ns$  (Max.)
- Low Forward Voltage :  $V_{FM}=0.98V$
- Available to Reduce Switching Losses and Output Noise.

MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

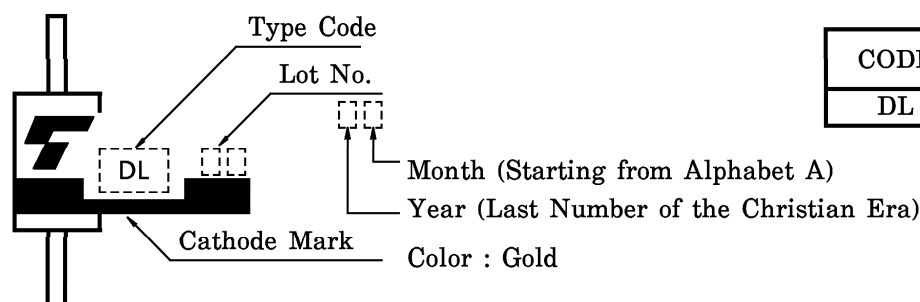
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Average Output Rectified Current	$I_F(AV)$	1.0	A
Peak One Cycle Surge Forward Current	$I_{FSM}$	10 (50Hz)	A
Junction Temperature	$T_j$	$-40 \sim 150$	$^\circ C$
Storage Temperature Range	$T_{stg}$	$-40 \sim 150$	$^\circ C$

ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

Weight : 0.18g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=1.0A$	—	—	0.98	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=200V$	—	—	100	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F=1A, di/dt = -20A/\mu s$	—	—	60	ns
Forward Recovery Time	$t_{fr}$	$I_F=1.0A$	—	—	100	ns

## MARKING



CODE	TYPE
DL	1DL42

961001EAA1

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